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1	175	("544/201,203").CCLS.	USPAT; US-PGPUB; EPO; JPO	2001/08/01 15:54

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09/830,074

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FULL ESTIMATED COST	4.11	4.26

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=> s l1/prep

24368 L1
2704895 PREP/RL
L2 2363 L1/PREP
(L1 (L) PREP/RL)

=> s l2 and ammonia

117416 AMMONIA
L3 144 L2 AND AMMONIA

=> s l3 and water

1444929 WATER
L4 26 L3 AND WATER

=> d l4 1-26 bib abs

L4 ANSWER 1 OF 26 CAPLUS COPYRIGHT 2001 ACS
AN 2001:12430 CAPLUS
DN 134:72330
TI Method for separating melamine from melamine-containing gas mixtures
IN Willems, Rob Gerard Jan
PA DSM N.V., Neth.
SO PCT Int. Appl., 11 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001000596	A2	20010104	WO 2000-NL354	20000524
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRAI NL 1999-1012467 19990629

AB The method for sepg. melamine from melamine-contg. gas mixts. obtained by synthesis of melamine from urea or thermal decompn. products of urea in the presence of ammonia and catalyst, comprises cooling the gas

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mixt. in a cooling zone through direct contact with an evapg. medium contg. .gtoreq.1 water, ammonia, and ammonium carbamate, wherein the evapg. medium is sprayed so that specific area is >600 m2/m3 of liq., the gas has impulse (rhogas*(vgas)2) >0.2 kg/m-s2 in at least a part of the cooling zone, and the residence time of the gas in the cooling zone where the gas is cooled to a temp. below 210.degree., is <11 s.

L4 ANSWER 2 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 2000:855629 CAPLUS

DN 134:30951

TI Organic flame retardant compositions containing salts of nitrogen compounds with boron oxyacids

IN Blount, David H.

PA USA

SO U.S., 9 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6156240	A	20001205	US 1997-898931	19970723
AB	An org. flame retardant material consists of: (1) a nitrogen-contg. salt of a boron oxyacid (contg. >1 nitrogen and >1 boron atoms), prepd. by reaction of 25-100 wt.% of one or more boron oxyacid or salt with 25-100 wt.% of a nitrogen-contg. salt-forming compd. and 10-25 wt.% water (optionally contg. aq. NH3), and (2) an addnl. carbonizable compd. selected from phosphorus and sulfur compds. that release acids upon pyrolysis. The compns. may also contain fillers (e.g., urea, melamine, amino phosphates, phenoplasts, sawdust, graphite, etc.). Nitrogen-contg. salt-forming compds., of component (1), are selected from ammonium carbonate, inorg. ammonium salts, amines, aminoplasts, thiourea, alkyl carbamates, sulfamic acids, nitriles, alkyl isocyanates, urea, amides, and polyamides. The compns. have use as flame retardants and as surfactants.				

RE.CNT 11

RE

(1) Blount; US 5721281 1998 CAPLUS

(2) Blount; US 5788915 1998 CAPLUS

(3) Fox; US 5076969 1991 CAPLUS

(4) Herndon; US 5151225 1992 CAPLUS

(5) Kajander; US 5837621 1998 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 2000:475649 CAPLUS

DN 133:91000

TI Method and apparatus for separating component from gaseous medium by crystallization

IN Paijens, Toine; Van Zee, Gerard; Vrijenhoef, Hans

PA Kemira Agro Oy, Finland

SO PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DT Patent

LA English

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FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000040566	A1	20000713	WO 1999-FI1089	19991229
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	FI 9802848	A	20000701	FI 1998-2848	19981231
PRAI	FI 1998-2848		19981231		

AB The method comprises injecting a gaseous medium contg. a component (e.g., p-dichlorobenzene) to be sepd. into a cooling liq. (e.g., water) in a crystallizer to form free traveling vapor bubbles which upon cooling induce supersatn. of the crystg. component with subsequent crystn. of the component at the phase interface of the free traveling vapor bubbles in the cooling liq.

RE.CNT 4

RE

- (1) Anon; Journal of Crystal Growth 1997, V178
- (2) Henriette, W; Cryst Growth Org Mater 4, Int Workshop, 4th 1997, P206
- (3) Kitamura, M; Crystal size control of sulfathiazole using high pressure carbon dioxide P378
- (4) Saburo, K; US 4331826 A 1982 CAPLUS

L4 ANSWER 4 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1999:597032 CAPLUS

DN 131:230084

TI Acrylic polyorganosiloxane-based aqueous coating and its manufacture

IN Fukuji, Yoshihisa; Shikano, Miki

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11256071	A2	19990921	JP 1998-56306	19980309
AB	The coating, having good water and oil resistance, comprises a copolymer of a monomer having an unsatd. double bond and a polyorganosiloxane group 5-95, a monomer having a double bond and an aq. sol. group 5-95 and other monomers 0-90% and a copolymer of 5-100% a monomer having a double bond and an aq. sol. group and other monomers 0-95%. Thus, a coating was made from a mixt. of a copolymer, prepd. by polymn. of Silaplane FM 0721 45, Bu methacrylate (I) 30 and acrylic acid (II) 25% in 200 parts MEK in the presence AIBN, removing the solvent and adding an aq. soln. contg. formic acid and ammonia water, 1.44, a copolymer, prepd. by polymn. of I 20, MMA 60 and II 20 in 40:160 (parts) iso-Pr alc. and MEK mixt. in the presence AIBN and adding an aq. soln. contg. formic acid and ammonia water, 57.2,				

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Denacol EX 810 5.6 and water 35.94%.

L4 ANSWER 5 OF 26 CAPLUS COPYRIGHT 2001 ACS
 AN 1999:597031 CAPLUS
 DN 131:230069
 TI Acrylic fluoropolymer aqueous coating and its manufacture
 IN Fukuji, Yoshihisa; Shikano, Miki
 PA Toyo Ink Mfg. Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11256070	A2	19990921	JP 1998-56305	19980309
AB	The coating, having good water and oil resistance, comprises a copolymer of a monomer having an unsatd. double bond and a fluoroalkyl group 5-95, a monomer having an unsatd. double bond and an aq. sol. group 5-95 and other monomers 0-90% and a polymer of 5-100% a monomer having an unsatd. double bond and an aq. sol. group and 0-95% other monomers.				

Thus,
 a coating was made from a mixt. of a copolymer, prepd. by polymn. of Viscoat 17FM 50, Bu methacrylate (I) 25 and acrylic acid (II) 25% in 40:160 (parts) iso-Pr alc. and MEK mixt. in the presence AIBN, removing the solvent and adding an aq. soln. contg. formic acid and ammonia water, 1.44, a copolymer, prepd. by polymn. of I 20, MMA 60 and II 20 in 40:160 (parts) iso-Pr alc. and MEK mixt. in the presence AIBN, removing the solvent and adding an aq. soln. contg. formic acid and ammonia water, 57.2, Denacol EX 810 5.6 and water 35.94%.

L4 ANSWER 6 OF 26 CAPLUS COPYRIGHT 2001 ACS
 AN 1999:421713 CAPLUS
 DN 131:59512
 TI Preparation of cyclic urea-formaldehyde polymer-modified phenol-formaldehyde and melamine-formaldehyde resin-based binders and their uses
 IN Dupre, F. C.; Foucht, Millard E.; Freese, William P.; Gabrielson, Kurt D.;
 Gapud, Benjamin D.; Ingram, W. Hayes; McVay, Ted E.; Rediger, Richard A.; Shoemaker, Kelly A.; Tutin, Kim K.; Wright, James T.
 PA Georgia-Pacific Resins, Inc., USA
 SO PCT Int. Appl., 49 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9932534	A1	19990701	WO 1998-US26922	19981218
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

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RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6114491 A 20000905 US 1998-215742 19981217
 AU 9918313 A1 19990712 AU 1999-18313 19981218
 BR 9813809 A 20001003 BR 1998-13809 19981218
 EP 1042382 A1 20001011 EP 1998-963255 19981218

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

PRAI US 1997-68286 19971219
 US 1998-95249 19980804
 US 1998-215742 19981217
 WO 1998-US26922 19981218

AB Phenol-formaldehyde and melamine-formaldehyde resins were modified with cyclic urea-formaldehyde prepolymers contg. .gtoreq.20% triazone and substituted triazone compds. and obtained from urea, formaldehyde and ammonia or primary amines by reacting into the base resin systems, blending with the completed base resin systems , or blending into the base resin prepn. The modified phenol-formaldehyde and melamine-formaldehyde resins are useful as binders in variety of products including consolidation wood products (such as plywood), engineered lumber (such as laminated veneer lumber), insulators, laminates, abrasive coatings, etc. Thus, 1311 parts phenol was mixed with formaldehyde (50%) 583, water 1217, cyclic urea-formaldehyde prepolymer (prepd. from urea, formaldehyde and ammonia) 500, pearl starch 16, defoamer 1.5, and NaOH (50%) 158 parts to give resin having viscosity (25.degree.) 944 cps, solids content 43.6%, refractive index 1.4643, Mn 279 and Mw 693, which was used as a adhesive in plywood.

RE.CNT 2
 RE
 (1) Nagoya Yuka KK; JP 07118355 A 1995 CAPLUS
 (2) Nagoya Yuka KK; JP 08109309 A 1996 CAPLUS

L4 ANSWER 7 OF 26 CAPLUS COPYRIGHT 2001 ACS
 AN 1999:380601 CAPLUS
 DN 131:20497
 TI Manufacture of water-resistant particleboards using urea resin-methylated formaldehyde-melamine-urea copolymer mixture adhesives
 IN Kikuchi, Takeshi; Ito, Atsushi; Matsunaga, Koji
 PA Mitsui Chemicals Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11156820	A2	19990615	JP 1997-322979	19971125
AB	Water-resistant particleboards are prepd. by mixing wood chips with 8-3:2-7 (wt. ratio) blends of urea resin (I) and liq. methylated formaldehyde-melamine-urea copolymer (II) adhesive prepd. by polymg. 2.2-6.6:1:0.1-1.0:0.05-1.0 (mol ratio) mixts. of HCHO, melamine, urea, and MeOH and hot-pressing the mixts. A 7:1.0:1.13:0.5 (mol ratio) mixt. of HCHO, melamine, urea, and MeOH was polyemd. at 80.degree. and subsequently				

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polymd. after adding 2.52:1.0:0.5:0.5 (mol ratio) mixt. of HCHO, melamine, urea, and MeOH to the mixt. to give II. Chips of wood having the surface and core layers comprising lauan and an adhesive compn. contg. 3:7 I-II blend 100, NH₄Cl 1, and 25% ammonia water 1 part were mixed and pressed 3.5 min at 185.degree. to give a particleboard exhibiting bending strength .apprx.21 N/mm².

L4 ANSWER 8 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1998:712672 CAPLUS

DN 130:14989

TI Water-thinned resin dispersions and coatings with good stability and curability for beverage cans

IN Yamaguchi, Kaoru

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10292027	A2	19981104	JP 1997-102855	19970421
AB	The title dispersions are manufd. by neutralizing acrylic-modified epoxy resins with amines and/or NH ₃ and then dispersing the neutralized resins in aq. solvents. The acrylic-modified epoxy resins are manufd. by (1) reacting (A) acrylic resins having monobasic carboxylic acid monomer units with (B) arom. epoxy resins having epoxy groups and/or OH groups modified with alc. solvents, (2) polymg. (C) comonomers contg. ethylenically unsatd. double bond-having monobasic carboxylic acids in the presence of (B), or (3) polymg. (C) with arom. epoxy resins having ethylenically unsatd. double bonds obtained by modifying (B) with (C). Coatings contg. the dispersions for beverage cans, are also claimed. Thus, styrene 68, Et acrylate 13.5, and methacrylic acid 54 parts were polymd. in the presence of benzoyl peroxide in BuOH to 27.3%-solid acrylic resin soln. Sep., 400 parts Epikote 1007 was reacted with 200 parts ethylene glycol monobutyl ether and 200 parts BuOH in the presence of 0.05 part NaOH to obtain a modified epoxy resin soln., 304 parts of which was mixed with 139 parts the acrylic resin soln. and 10.3 parts dimethylethanolamine, reacted at 70.degree. for 2 h, mixed with H ₂ O and 10 parts a 50%-solid bisphenol A-formaldehyde copolymer to give a 20.0%-solid dispersion showing good storage stability, mech. stability, and curability.				

L4 ANSWER 9 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1998:535270 CAPLUS

DN 129:218016

TI Crosslinkable water-thinned coating compositions and manufacture thereof

IN Goto, Tokio; Amemoto, Masahide

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

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FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10219193	A2	19980818	JP 1997-27615	19970212
AB	The title compns. comprise (A) 100 parts (solids) emulsion-polymd. vinyl polymers contg. OH and carboxy group and having Mn 15,000-35,000 and mol. wt. distribution .ltoreq.4; (B) 5-30 parts crosslinking agent(s) chosen from amino resins and polyisocyanates; and (C) 5-20 parts water -miscible org. solvents with water soly. .gtoreq.100 at 20.degree. and b.p. 130-220.degree. under ambient pressure. A component				
A	was prepd. from styrene 350, Et acrylate 430, Me methacrylate 100, 2-hydroxyethyl methacrylate 100, and acrylic acid 20 parts, with solubilization by aq. ammonia and used with titania and Watersol S-695 and Cymel 303 to obtain a high-gloss coating with excellent impact, soiling, weather, water , acid, alkali, solvent, and corrosion resistance and adhesion.				

L4 ANSWER 10 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1998:197900 CAPLUS

DN 128:231672

TI Polymer latexes for coating of automobile body covering sheets

IN Higuchi, Etsuo; Kawata, Rumi; Mori, Hidekazu

PA Nippon Zeon Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10081715	A2	19980331	JP 1996-255350	19960906
AB	The latexes with excellent alkali-thickening property and compatibility with Al stearate powders are obtained by emulsion polymn. of monomer mixts. comprising (meth)acrylic acid esters 75-98, ethylenically unsatd. acids 1-4, (meth)acrylamides or their derivs. 1-3, and other comonomers 0-23%. Coating compns. contg. the latexes and waterproofing agents are also claimed. Thus, a monomer mixt. comprising Et acrylate 62.5, Bu acrylate 30, acrylonitrile 2.5, acrylamide 1.2, N-methylolacrylamide 0.8, and acrylic acid 3 parts was polymd. in an aq. emulsion in the presence				
of	ammonium persulfate to give a copolymer latex, 100 parts (as solid) of which was blended with H2O 50, a polyethylene wax emulsion 10, melamine resin (M 3) 7, an amine catalyst (ACX) 0.9, a thickener 10, a 25% aq. ammonia 1.7, and Al stearate paste 34 parts to give a compn. showing viscosity 37,000 cP at pH 7.0 and its change .ltoreq.10% after 10 days. A polyester fabric coated with the compn. showed soft handle, good abrasion resistance, and no surface tack.				

L4 ANSWER 11 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1998:126304 CAPLUS

DN 128:168812

TI Aqueous dispersion coating compositions for metal can interiors

IN Nakamura, Tetsuhisa; Shiono, Teruo; Yamada, Masami; Harada, Sanji; Ihara, Masahiro; Tsuyama, Takeshi

PA Toyo Ink Manufacturing Co., Ltd., Japan; Nakamura, Tetsuhisa; Shiono,

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SO Teruo; Yamada, Masami; Harada, Sanji; Ihara, Masahiro; Tsuyama, Takeshi
PCT Int. Appl., 28 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9806782	A1	19980219	WO 1996-JP2283	19960812
	W: US				
	RW: DE, FR, GB				
	EP 855427	A1	19980729	EP 1996-926631	19960812
	R: DE, FR, GB				
	US 6046256	A	20000404	US 1998-51434	19980409
PRAI	WO 1996-JP2283		19960812		

AB The title compns. comprise: (A) a modified epoxy resin as an emulsifying agent and (B) an arom. epoxy resin having Mn 1,000-30,000 as a resin to be

emulsified which is partially or completely neutralized with ammonia and/or amine, wherein the resin A is prepd. by reacting an arom. epoxy resin having an epoxy equiv. 2,000-20,000 with an acrylic resin comprising (meth)acrylic acid and having acid value 50-450. An acrylic soln. was prepd. from styrene 105, Et acrylate 105, methacrylic acid 90, benzoyl peroxide 3, BuOH 696.4 parts in the presence of benzoyl peroxide; a modified epoxy resin soln. from Epikote 1007 400, ethylene glycol monobutyl ether 300, and MEK 300 parts; an arom. epoxy resin soln. from PKHH 400, ethylene glycol monobutyl ether 300, and MEK 300 parts;

and

a resol soln. from p-cresol 417.7, formalin (40% BuOH soln.) 580.1, and Mg(OH)2 2.2 parts with diln. by xylene-BuOH-cyclohexanone to 35% solids and used in 15:35:40:10 ratio in a coating compn.

L4 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1997:543481 CAPLUS

DN 127:149763

TI Modifying 1,3,5-triazine derivatives

IN Tanaka, Norio; Fukue, Yasuo; Mizusawa, Kenichi; Ishikawa, Makoto

PA Nissan Chemical Industries, Ltd., Japan; Tanaka, Norio;; Fukue, Yasuo;; Mizusawa, Kenichi;; Ishikawa, Makoto;

SO PCT Int. Appl., 100 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 9724338	A1	19970710	WO 1996-JP3762	19961224
	W: AU, CA, CN, KR, NO, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE	CA 2241525	AA	19970710	CA 1996-2241525	19961224
	AU 9711731	A1	19970728	AU 1997-11731	19961224
	AU 704558	B2	19990429		
	EP 882720	A1	19981209	EP 1996-942628	19961224
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	CN 1206409	A	19990127	CN 1996-199361	19961224

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JP 10231291 A2 19980902 JP 1996-346882 19961226
US 6127538 A 20001003 US 1998-91545 19980622
NO 9802959 A 19980819 NO 1998-2959 19980625
PRAI JP 1995-340424 19951227
JP 1996-340721 19961220
WO 1996-JP3762 19961224
OS MARPAT 127:149763
AB The title process involves reacting a s-triazine deriv. having .gtoreq.1
(monosubstituted) amino group on any of the ring carbon atoms with an
alc.
by heating in the presence of a metallic catalyst and H to introduce an
alkyl or alkenyl group into each (monosubstituted) amino group; reacting
a
s-triazine deriv. having .gtoreq.1 (monosubstituted) amino group on any
of
the ring carbon atoms with a dihydric alc. by heating in the presence of
a
metallic catalyst and H to introduce a hydroxylated alkyl group into each
(monosubstituted) amino group. Their unique phys. properties, e.g.,
soly.
in **water** and in various org. solvents, high-temp. stability,
m.p., b.p., and basicity are of great interest for wide-ranging
applications, e.g., for modifier additives, in particular a
flame-retardant and a plasticizer for resins. The reaction of 0.01 mol
melamine with EtOH in the presence of 5% Pd/C under 10 kg/cm² H at
210.degree. for 2 h gave melamine conversion 11.0%, 9.1%
2,4-diamino-6-ethylamino-s-triazine and 1.2%
2-amino-4,6-bis(ethylamino)-s-
triazine.

L4 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2001 ACS
AN 1997:394279 CAPLUS
DN 127:6175
TI Method for preparing **water**-dispersible acrylic resin
IN Nishikawa, Katsue; Hagiwara, Youshichi
PA W.R. Grace & Co. - Conn., USA; Nishikawa, Katsue; Hagiwara, Youshichi
SO PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 9714751	A1	19970424	WO 1996-JP3037	19961021
	W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU,				
	IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN,				
	MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA,				
	UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,				
	IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,				
	MR, NE, SN, TD, TG				
	JP 09124718	A2	19970513	JP 1995-272368	19951020
	AU 9673340	A1	19970507	AU 1996-73340	19961021
PRAI	JP 1995-272368		19951020		
	WO 1996-JP3037		19961021		
AB	A water -dispersible resin exhibits excellent properties as a				

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base resin in aq. coating compn. while requiring a reduced amt. of org. solvents. The **water**-dispersible resin is prepd. by (1) reacting an epoxy resin having .gtoreq.2 1,2-epoxy groups/mol. and having an epoxy equiv. wt. 100-5000 with a (meth)acrylic acid polymer and a tertiary amine, while neutralizing the existing carboxyl groups before, during or after the reaction, to prep. an aq. dispersion of a modified epoxy resin having quaternary ammonium carboxylate groups, and (2) polymg., in this aq. dispersion, an unsatd. compd. having .gtoreq.1 unsatd. group/mol.

Epo

Tohto YD 017 was reacted with dimethylethanolamine, aq. Jurymer AC 10SH soln. was added to this modified epoxy resin to form quaternary ammonium carboxylate groups, the remaining carboxy groups of the acrylic resin

were

neutralized with aq. **ammonia**, and this aq. dispersant was used to polymerize Me methacrylate in the presence of initiator, forming coating binder.

L4 ANSWER 14 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1995:773256 CAPLUS

DN 123:343550

TI **Water**-thinned coating compositions with excellent corrosion and **water** resistance

IN Shinohara, Chikaya; Ishida, Yoshinori; Takeda, Yasuyuki

PA Toto Kasei Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07157711	A2	19950620	JP 1993-309305	19931209
AB	The compns. comprise (A) 2-20 parts (based on 100 parts total compn.) water -sol. resins obtained by copolymg. phosphoric ester-modified epoxy resins and carboxy-contg. ethylenically unsatd. monomers, (B) aq. thermosetting resins, and (C) hardeners. Thus, adding dropwise 804.5 parts di-Bu phosphate to a mixt. of 800 parts YD 128 and 200 parts YDPN 638 (phenol novolak epoxy resin) for 1 h, stirring them for 6 h, adding 95.6 parts neo acid and 0.1 part PPh3 to the mixt., and heating them at 150.degree. for 8 h gave a phosphoric ester-modified epoxy resin, 320 parts of which was dissolved in ethylene glycol mono-Bu ether (I), treated with 23.0 parts methacrylic acid and 57 parts Me methacrylate at 115-120.degree. in the presence of Bz2O2, dild. with I, and mixed with Et3N and H2O to give an aq. resin. A compn. of Almatex W 911 (acrylic resin) 33.3, Tipaque R 830 (TiO2) 54, Cymel 303 13, the aq. resin 10, and p-toluenesulfonic acid amine salt 0.3 part (solids) showed good storage stability and, applied on a Zn phosphate-treated steel plate and baked to form a coating, showed pencil hardness 4H and good water and salt-spray resistance.				

L4 ANSWER 15 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1995:383028 CAPLUS

DN 123:57580

TI Fluidized-bed reactor process for manufacturing melamine from urea at elevated pressures

V. Balasubramanian

IN Lee, Jing M.
PA USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5384404	A	19950124	US 1993-147848	19931105
	WO 9620933	A1	19960711	WO 1995-US36	19950103
	W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9515972	A1	19960724	AU 1995-15972	19950103
PRAI	US 1993-147848		19931105		
	WO 1995-US36		19950103		
AB	An improved process, summarized in 6 steps, for manufg. melamine from urea				
	simplifies the recovery of melamine, carbamate and ammonia from a fluidized bed reactor effluent stream by operating the process at 1.4-2 MPa. In the process, a carbamate soln. can be produced at a sufficiently high concn. for use in a urea plant without an intervening concn. step. In addn., ammonia recycled as a fluidizing gas can be condensed against cooling water to permit easy sepn. of noncondensables such as oxygen used in the process as a passivator for carbamate corrosion				
	inhibition. The melamine product is produced as an aq. soln. free of melamine solids. Heat is recovered from the carbamate condensation and used for the vaporization of ammonia which is recycled to the reactor for fluidization.				

L4 ANSWER 16 OF 26 CAPLUS COPYRIGHT 2001 ACS
AN 1995:18473 CAPLUS
DN 122:135906

TI Properties of hydrophilic poly(ethylene terephthalate) modified by grafting with poly(acrylic acid) followed by novel salts formation
AU Konomi, Tsuyoshi; Shigaki, Mika; Sato, Yumi; Sakata, Keiko; Sugiura, Hiroko
CS Fac. Home Econ., Japan Women's Univ., Tokyo, 112, Japan
SO Sen'i Gakkaishi (1994), 50(3), 110-17
CODEN: SENGAS; ISSN: 0037-9875
DT Journal
LA Japanese
AB Novel salts of poly(ethylene terephthalate) (PET) modified by grafting with poly(acrylic acid) (PAA) were prepd. using salts of amines and Na salts of amino acid analog, as well as of alkali and alkali earth metal. Changes in hygroscopicity, tensile properties, bending rigidity of fabrics, electrostatic property, and thermal stability by the grafting and the salt formation were investigated. In the case of amine and alc. amine salts, moisture regain were reduced due to the steric hindrance, in adsorbing site for water mol., in the presence of bulky alkyl

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groups attached to N atom. For the samples reacted with alkali metal salts, hygroscopicity increased with ionic strength of metal. By alkali metal salt formation, tensile strength decreased by 25% in comparison with

that of PAA-grafted PET. Fibers reacted with novel salts retained the same tensile strength as that of PAA-grafted PET. PET fabrics modified showed slight decrease in bending rigidity. The activation energy for thermal degrdn. reaction was estd. The thermal stability of the above samples was generally reduced except the sample reacted with Ca ion.

L4 ANSWER 17 OF 26 CAPLUS COPYRIGHT 2001 ACS
AN 1992:7363 CAPLUS
DN 116:7363
TI Preparation of phenolic resins for laminating
IN Honda, Nobuyuki
PA Toshiba Chemical Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03162409	A2	19910712	JP 1989-302467	19891121
	JP 06037541	B4	19940518		

AB The title resins giving laminates with excellent flame, heat, and humidity resistance, dimensional stability, punchability, and reduced warpage are prepd. by treating melamines with phenols and aldehydes in the presence of NH3 or primary amines to prep. resols followed by treating the resols with tertiary amines. Thus, melamine 150, PhOH 250, 37% formalin 350, and 40% aq. MeNH2 4 g were refluxed for 1 h to prep. a resol, which was refluxed with 3 g Et3N for 1 h, dehydrated under reduced pressure, dild. with MeOH-MePh mixt. and mixed with 341 g Ph3PO4 and 120 g tetrabromodiphenyl ether to prep. a varnish [solid resin content 60%, viscosity 2.0 P (25.degree.), gel time 4.5 min (150.degree.)]. The varnish was impregnated into 10 mils kraft paper to prep. prepregs (resin pickup 50%), 8 sheets of which were sandwiched between adhesive-backed Cu foils and heated at 170.degree. and 100 kg/cm2 for 75 min to obtain a 1.6-mm paper-based phenolic resin printed base showing solder resistance 50-60 s (JIS-C6481), water absorption 0.6% and surface temp. 50.degree. on punching, compared with 30-40 s, 0.9% and 60.degree. for a control similarly prepd. but omitting the refluxing with Et3N. The printed base also showed flame retardance (UL-94) V-0 and warpage 0.5-1.0 mm.

L4 ANSWER 18 OF 26 CAPLUS COPYRIGHT 2001 ACS
AN 1990:632758 CAPLUS
DN 113:232758
TI Adducts of phosphonates and amines as fireproofing agents
IN Von Bonin, Wulf; Von Gizycki, Ulrich
PA Bayer A.-G., Fed. Rep. Ger.
SO Ger. Offen., 12 pp.
CODEN: GWXXBX

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DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	DE 3833977	A1	19900426	DE 1988-3833977	19881006
OS	MARPAT 113:232758				
AB	Adducts of phosphonates $M[OPR(O)OR_1]_x$ (M = Group II-VIII metal; R = C1-6 aliph. group, C6-10 arom. group; R_1 = H, C1-6 aliph. group, C6-10 arom. group; x = valence of M) and 0.05-1 mol amine/equiv OR1 group are prepd. and used as fireproofing agents for polymers, paper, wood, etc. Heating $Al(OH)_3$ 78, $MeP(O)(OMe)_2$ 373, and water 800 parts at 180.degree. gave $Al[OPMe(O)OH]_3$ (I). A mixt. of 312 parts I (as 20% aq. soln.) and 126 parts melamine was heated 10 min at 100.degree., dried at 100-120.degree., and pulverized to prep. a fireproofing agent, which was mixed (200 parts) with 100 parts ethylene-vinyl acetate copolymer. The mixt. had limiting O index 45.5% and self-extinguishing time 3 s.				

L4 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1989:463487 CAPLUS

DN 111:63487

TI Removal of phenol, melamine, and formaldehyde from wastewater

IN Schwitzgelbel, Klaus

PA USA

SO U.S., 7 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 4824577	A	19890425	US 1987-86073	19870817
AB	A clean up process for removing melamine, HCHO, and phenol from wash water in plastics manuf. comprises pptg. reaction products from the phenol-HCHO wash stream at pH >9, contacting the filtrate with a C adsorbent bed to remove phenol, converting the HCHO to urotropine at pH >10 with excess NH_3 , and contacting the effluent with a C bed to remove urotropine. Similarly, the melamine-HCHO wash water is held at pH 4.5 and >50.degree. to ppt. reaction products and the resulting filtrate is treated as before to remove HCHO and residual melamine. The filtrates can be combined and treated together to form urotropine which can be removed by C adsorbents. Powd. C can act as a catalyst in the reaction. The treated effluent can be recycled to wash equipment.				

L4 ANSWER 20 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1988:57091 CAPLUS

DN 108:57091

TI Base-catalyzed reactions of imino- or amino-functional compounds in preparation of polyether polyols

IN Guettes, Bernd; Romanowski, Helmut; Mueller-Hagen, Gerd; Marquardt, Renate; Tischer, Gerlinde

PA VEB Synthesewerk Schwarzheide, Ger. Dem. Rep.

SO Ger. (East), 4 pp.

CODEN: GEXXA8

DT Patent

LA German

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FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 242313	A1	19870121	DD 1982-245975	19821215
AB	A precondensate prepd. from urea and/or a deriv., an aq. HCHO and stabilized with NH ₃ , an amine, or an amino alc. is treated, optionally in the presence of a catalyst, with an alkylene oxide, and the reaction product, after removal of water and, optionally, the addn. of a catalyst, is treated with addnl. alkylene oxide to prep. a polyether polyol which is useful in the prepn. of polyurethane foams. The method avoids cleavage and decompn. reactions during alkoxylation, and the precondensate used in the alkoxylation is homogeneous, pumpable, and stirrable. A mixt. of urea 300, 37% aq. HCHO 215, and aq. NH ₃ 1 g was stirred 2 h to prep. a precondensate which (420 g) was treated with 6 g 48% aq. KOH, heated to 110.degree., treated with 400 mL propylene oxide (I) during <1 h, distd. in vacuo to remove water , and treated with 600 mL I at 100-120.degree. to prep. a polyether polyol having OH no. 510, pH 9.8, viscosity (25.degree.) 3300 mPas, and water content 0.1%.				

L4 ANSWER 21 OF 26 CAPLUS COPYRIGHT 2001 ACS
AN 1984:552877 CAPLUS
DN 101:152877
TI Melamine-urea resins
PA Nippon Kasei K. K., Iwaki, Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59108018	A2	19840622	JP 1982-216396	19821210
AB	Melamine-urea resin [25036-13-9] varnishes, giving blocking-resistant decorative paper prepreps, are prepd. by heating between 85.degree. and the refluxing temp. a soln. contg. 1:3.0-5.0 mol ratio HCHO-urea in a water -MeOH [67-56-1] mixt. (which has been adjusted to pH 8.0-9.0 with NH ₃ [7664-41-7] or NH ₃ -hexamethylenetetramine [100-97-0] mixt.) until the pH of the soln. drops to 4.5-4.0, adjusting the pH of the soln. to 3.8-3.2 with HCOOH [64-18-6] and heating the soln. between 85.degree. and the refluxing temp. for 1.5-2.5 h, and adjusting the pH of the soln. to 8.5-9.5 and treating the soln. with melamine or a melamine-HCHO mixt. between 85.degree. and the refluxing temp. until the soln. pH drops to .apprx.7.5. The melamine-urea-methanol-HCHO mol ratio used was 1.0:0.8-1.2:0.7-1.9:4.0-5.0;. Thus, a soln. (pH 8.0) contg. 37.8% HCHO 1118, MeOH 78, 25% aq. NH ₃ 53, and urea 240 g was refluxed for 2 h until the pH of the soln. dropped to 4.2. After adding 3.7 g 20% aq. HCOOH, the soln. was refluxed for 2 h, mixed with 351 g 37.8% HCHO and 7.6 g 25% aq. Na ₂ CO ₃ to adjust the soln. pH to 8.8, and treated with 554 g melamine at 85.degree. for 1.5 h. The polymer product was mixed with 1.5 g 25% aq. Na ₂ CO ₃ and 23 g ethylene glycol to give a varnish (solids content 50.5%) having viscosity 46.0 cP at 25.degree. and pot life 15 days at 15-25.degree.. Paper impregnated with the resin and p-toluenesulfonic acid curing agent exhibited blocking temp. 35.degree. at 80% relative				

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humidity.

L4 ANSWER 22 OF 26 CAPLUS COPYRIGHT 2001 ACS
AN 1983:597421 CAPLUS
DN 99:197421
TI Separation of ammonia and carbon dioxide from mixtures
containing ammonia, carbon dioxide and water
IN Goorden, Josephus Johannes Pentrus; Laurens, Jan Simon; Biermans, Andreas
Johannes
PA Stamicarbon B. V. , Neth.
SO Eur. Pat. Appl., 24 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 88478	A1	19830914	EP 1983-200309	19830303
	EP 88478	B1	19860611		
	R: AT, BE, DE, FR, GB, IT, NL, SE				
	NL 8200905	A	19831003	NL 1982-905	19820305
	AT 20335	E	19860615	AT 1983-200309	19830303
PRAI	NL 1982-905		19820305		
	EP 1983-200309		19830303		

AB The NH3, CO2, and H2O in a mixt. such as obtained in the synthesis of
melamine or urea are recovered sep. In a 1st zone NH3 free of CO2 and
H2O

is sepd. by distn. The soln. remaining is transferred to a 2nd zone
where

CO2 free of NH3 and H2O is sepd. by distn. The soln. remaining after CO2
recovery is fed to a 1st desorption zone where gaseous NH3, CO2, and H2O
and a dil. soln. of NH3, CO2 and H2O are formed.. The latter dil. soln.
is transferred to a 2nd desorption zone where the remaining CO2 and NH3
are removed and pure H2O is obtained. The NH3 and CO2 from the 2
desorption zones are recycled to the sepn. zones.

L4 ANSWER 23 OF 26 CAPLUS COPYRIGHT 2001 ACS
AN 1976:90939 CAPLUS
DN 84:90939
TI Treating waste mother liquor for production of melamine
IN Fujiyoshi, Kenji
PA Showa Denko K. K., Japan
SO Japan., 3 pp.
CODEN: JAXXAD
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 50026553	B4	19750901	JP 1967-44170	19670711
AB	Cyanuric acid (II) [108-80-5] and CO2 [124-38-9] were added, preferably at				

high temp., to a waste mother liq. for prodn. of melamine (I) [108-78-1]
by the urea method to crystallize out I (which adversely affected
formation of urea) as melamine cyanurate (III) [37640-57-6] and to
neutralize NH3 [7664-41-7] to form the carbonate. Neutralization of NH3

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accelerated formation of III. Thus, 100 parts of aq. II soln. was added to 100 parts of waste mother liq. (NH₃ 12, CO₂ 8, urea 15, I 0.3, and **water** 64.7%) with stirring, followed by addn. of 16 parts CO₂.

The pptd. product was removed by filtration, and I content of the filtrate

was 0.0075%, which corresponded to 95% removal of I.

L4 ANSWER 24 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1972:72986 CAPLUS

DN 76:72986

TI Separating melamine from a hot melamine vapor-containing synthesis gas mixture

IN Verstegen, Johannes D. M.; Van Nassau, Petrus J. M.

PA Stamicarbon N. V.

SO Ger. Offen., 11 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2116200	A	19711021	DE 1971-2116200	19710402
	DE 2116200	C2	19820121		
	NL 7004765	A	19711005	NL 1970-4765	19700403
	NL 169181	B	19820118		
	NL 169181	C	19820616		
	US 3711479	A	19730116	US 1971-130428	19710401
	BE 765201	A1	19711004	BE 1971-101720	19710402
	ZA 7102145	A	19711229	ZA 1971-2145	19710402
	FR 2089100	A5	19720107	FR 1971-11735	19710402
	BR 7101994	A0	19730417	BR 1971-1994	19710402
	AT 307432	B	19730525	AT 1971-2819	19710402
	ES 389828	A1	19730601	ES 1971-389828	19710402
	CA 944351	A1	19740326	CA 1971-109446	19710402
	SE 381659	B	19751215	SE 1971-4355	19710402
	NO 133233	B	19751222	NO 1971-1284	19710402
	GB 1288697	A	19720913	GB 1971-1288697	19710419

PRAI NL 1970-4765 19700403

AB In a process for sepg. melamine [108-78-1] from a hot, synthesis gas mixt.

contg. melamine vapor, NH₃, and CO₂, the hot, melamine vapor-contg. gas was cooled by contacting it with an aq. soln. contg. 1.5-5 kg NH₂CO₂NH₄ for every kg melamine to be recovered from the synthesis gas mixt. The melamine-free, NH₃ and CO₂-contg. gas mixt. contained less **water** (<20%) than similar gas mixts. obtained by conventional processes in which

the synthesis gas mixt. was cooled with **water**.

L4 ANSWER 25 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1971:477711 CAPLUS

DN 75:77711

TI Regenerating waste gases from melamine production

IN Kokubo, Ryo; Yokomichi, Koji; Takakuwa, Yasuo

PA Nissan Chemical Industries, Ltd.

SO Ger. Offen., 17 pp.

CODEN: GWXXBX

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DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2053487	A	19710527	DE 1970-2053487	19701030
	DE 2053487	B2	19741114		
	DE 2053487	C3	19750703		
	JP 50022020	B4	19750728	JP 1969-87379	19691101
	FR 2071884	A5	19710917	FR 1970-39223	19701030
	GB 1309275	A	19730307	GB 1970-51987	19701102
PRAI	JP 1969-87379		19691101		

AB The waste gases (mainly NH₃ and CO₂) generated during the conversion of urea to melamine at high temp. and pressure are used, directly or after the addn. of water or aq. (NH₄)₂CO₃ soln. and at the pressure used for melamine prepn., for the prepn. of urea, and this urea synthesis soln. is freed of excess NH₃ (which is recycled to the melamine synthesis)

and passed into the 1st decompn. stage of a urea synthesis process. No addnl. pump or compressor is needed. Thus, 29 kg urea/hr and 8.2 kg NH₃/hr were heated at 400.degree. and 140 kg/cm² to give 10 kg melamine/hr, and the waste gas contg. 16.4 kg NH₃/hr and 10.6 kg CO₂/hr

at

200.degree. was used for urea synthesis at 165.degree. and 135 kg/cm², giving a mixt. of urea 7.2, NH₃ 12.3, CO₂ 5.3 and H₂O 2.2 kg/hr, which was

freed of excess NH₃ (4 kg/hr is recycled to melamine synthesis) and passed into the 1st decompn. stage of a urea synthesis process.

L4 ANSWER 26 OF 26 CAPLUS COPYRIGHT 2001 ACS

AN 1970:12773 CAPLUS

DN 72:12773

TI Recycling of gases from melamine synthesis to urea synthesis in a combined

process for synthesis of melamine and urea

IN Kaasenbrood, Petrus J. C.; Van Nassau, Petrus J. M.

PA Stamicarbon N. V.

SO Ger., Offen., 10 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 1904912	A	19690911	DE 1969-1904912	19690131
	DE 1904912	B2	19770602		
	NL 6801577	A	19690805	NL 1968-1577	19680202
	BE 727645	A	19690730	BE 1969-727645	19690130
	AT 283379	B	19700810	AT 1969-980	19690131
	FR 2001269	A5	19690926	FR 1969-2347	19690203
	GB 1247951	A	19710929	GB 1969-1247951	19690203
	US 3682911	A	19720808	US 1969-796093	19690203
PRAI	NL 1968-1577		19680202		

AB A process for recycling the effluent from the synthesis of melamine (I) from urea is described. The I product gas, which contains I, NH₃, and

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CO₂, is cooled directly with water or aq. solns. contg. NH₃ and CO₂, sepg. the I and giving a gaseous mixt. of NH₃, CO₂, and H₂O. By cooling and adding, if necessary, H₂O or aq. solns. contg. NH₃ and CO₂, solns. which contain NH₄ carbamate or carbonate and free NH₃ and are suitable for urea synthesis are obtained. The solns. are brought to urea-synthesis pressures, heated, and desorbed with a countercurrent CO₂ gas stream. The NH₃-CO₂ gas mixt. from the desorption contained only small amts. of H₂O vapor, and was fed the high-pressure step of urea synthesis. In this process, the amt. of H₂O present in the NH₃-CO₂ mixts.

obtained from the I synthesis effluent is reduced.

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	62.48	66.74
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
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NEWS 8 Dec 5 French Multi-Disciplinary Database PASCAL Now on STN
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NEWS 11 Dec 17 Merged CEABA-VTB for chemical engineering and
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NEWS 12 Dec 17 Corrosion Abstracts on STN
NEWS 13 Dec 17 SYNTHLINE from Prous Science now available on STN
NEWS 14 Dec 17 The CA Lexicon available in the CAPLUS and CA files
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

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DICTIONARY FILE UPDATES: 1 APR 2001 HIGHEST RN 329683-87-6

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=> s melamine/cn

L1 1 MELAMINE/CN

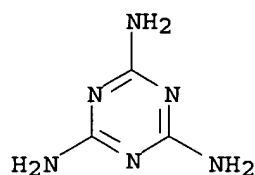
=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN 108-78-1 REGISTRY
CN 1,3,5-Triazine-2,4,6-triamine (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN **Melamine (8CI)**
CN s-Triazine, 4,6-diamino-1,2-dihydro-2-imino- (6CI)
OTHER NAMES:
CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-triimine
CN 2,4,6-Triamino-1,3,5-triazine
CN 2,4,6-Triamino-s-triazine
CN 2,4,6-Triaminotriazine
CN ADK Stab ZS 27
CN Cyanuramide
CN Cyanurotriamide
CN Cyanurotriamine
CN DG 002
CN DG 002 (amine)
CN Isomelamine
CN Mark ZS 27
CN Pluragard
CN Pluragard C 133
CN s-Triazinotriamine
CN Teoharn
CN Theoharn
CN Triamino-s-triazine
CN Triaminotriazine
CN Virset 656-4
CN Yukamelamine

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CN ZS 27
FS 3D CONCORD
DR 504-18-7, 130392-03-9, 94977-27-2, 65544-34-5, 67757-43-1, 68379-55-5,
70371-19-6, 169314-62-9
MF C3 H6 N6
CI COM
LC STN Files: AGRICOLA, ANABSTR, APILIT, APILIT2, APIPAT, APIPAT2,
BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD,
CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN,
CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*,
HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC,
PIRA,
PROMT, RTECS*, SPECINFO, TOXLINE, TOXLIT, TULSA, ULIDAT, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
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4983 REFERENCES IN FILE CA (1967 TO DATE)
1749 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4996 REFERENCES IN FILE CAPLUS (1967 TO DATE)
11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.61	5.76

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FILE COVERS 1967 - 2 Apr 2001 VOL 134 ISS 15
FILE LAST UPDATED: 1 Apr 2001 (20010401/ED)

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=> s 108-78-1 and cooling

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L3 5000 L2

217965 COOLING
L4 109 L3 AND COOLING

=> d l4 1-109 bib

L4 ANSWER 1 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 2001:78371 CAPLUS
DN 134:132264
TI Production of melamine
IN Coufal, Gerhard
PA Agrolinz Melamin G.m.b.H., Austria
SO PCT Int. Appl., 13 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001007421	A2	20010201	WO 2000-EP7093	20000725
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,				

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SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI AT 1999-1299 19990727

L4 ANSWER 2 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 2001:78370 CAPLUS
DN 134:132263
TI Production of solid melamine
IN Coufal, Gerhard
PA Agrolinz Melamin G.m.b.H., Austria
SO PCT Int. Appl., 12 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001007420	A2	20010201	WO 2000-EP7092	20000725
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI AT 1999-1298			19990727		

L4 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 2001:12430 CAPLUS
DN 134:72330
TI Method for separating melamine from melamine-containing gas mixtures
IN Willems, Rob Gerard Jan
PA DSM N.V., Neth.
SO PCT Int. Appl., 11 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001000596	A2	20010104	WO 2000-NL354	20000524
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
NL 1012467		C2	20010102	NL 1999-1012467	19990629

V. Balasubramanian

PRAI NL 1999-1012467 19990629

L4 ANSWER 4 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 2000:842420 CAPLUS
DN 133:354102
TI Activator for fly ash concrete
IN Yu, Youyi
PA Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 7 pp.
CODEN: CNXXEV
DT Patent
LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	CN 1250757	A	20000419	CN 1998-120411	19981014

L4 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 2000:705145 CAPLUS
DN 133:269284
TI Melamine-containing corrosion inhibitor
IN Graichen, Stefan
PA Germany
SO Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 1041174	A1	20001004	EP 1999-106518	19990330
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

OS MARPAT 133:269284

RE.CNT 6

RE

- (1) Ciba Geigy Ag; EP 0046139 A 1982 CAPLUS
- (2) Ciba Geigy Ag; EP 0553962 A 1993 CAPLUS
- (3) Darden, J; US 4647392 A 1987 CAPLUS
- (4) McLaughlin, J; US 3976588 A 1976 CAPLUS
- (6) Zts Chemie Gmbh; EP 0846690 A 1998 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 2000:475650 CAPLUS
DN 133:89930
TI High-pressure process for preparation of melamine from urea
IN Vrijenhoef, Hans
PA Kemira Agro Oy, Finland
SO PCT Int. Appl., 18 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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V. Balasubramanian

PI WO 2000040567 A1 20000713 WO 1999-FI1090 19991229
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
FI 9802847 A 20000701 FI 1998-2847 19981231

PRAI FI 1998-2847 19981231

RE.CNT 4

RE

- (1) Dsm N V; WO 9734879 A1 1997 CAPLUS
- (2) Kemira, O; WO 9501345 A1 1995 CAPLUS
- (3) Roger, E; US 4565867 A 1986 CAPLUS
- (4) Ryo, K; US 3484440 A 1969

L4 ANSWER 7 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 2000:475649 CAPLUS

DN 133:91000

TI Method and apparatus for separating component from gaseous medium by
crystallization

IN Paijens, Toine; Van Zee, Gerard; Vrijenhoef, Hans

PA Kemira Agro Oy, Finland

SO PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2000040566	A1	20000713	WO 1999-FI1089	19991229
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

FI 9802848 A 20000701 FI 1998-2848 19981231

PRAI FI 1998-2848 19981231

RE.CNT 4

RE

- (1) Anon; Journal of Crystal Growth 1997, V178
- (2) Henriette, W; Cryst Growth Org Mater 4, Int Workshop, 4th 1997, P206
- (3) Kitamura, M; Crystal size control of sulfathiazole using high pressure
carbon dioxide P378
- (4) Saburo, K; US 4331826 A 1982 CAPLUS

L4 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 2000:393779 CAPLUS

DN 133:5138

V. Balasubramanian

TI Process for manufacture of melamine-formaldehyde resin for water soluble coatings

IN Motiu, Iancu; Vaszilcsin, Ileana; Vuicin, Miriana; Matyasin, Marta; Lazar,

Dorin; Serenciu, Vasile

PA S.C. "Azur" S.A., Timisoara, Rom.

SO Rom., 3 pp.

CODEN: RUXXA3

DT Patent

LA Romanian

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	RO 110510	B1	19960130	RO 1991-147877	19910624

L4 ANSWER 9 OF 109 CAPLUS COPYRIGHT 2001 ACS.

AN 2000:351513 CAPLUS

DN 133:5397

TI Method for producing pure melamine

IN Coufal, Gerhard

PA Agrolinz Melamin G.m.b.H., Austria

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2000029393	A1	20000525	WO 1999-EP8462	19991105

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI AT 1998-1894 19981113

RE.CNT 3

RE

(1) Agrolinz Melamin Gmbh; WO 9620182 A 1996 CAPLUS

(2) Agrolinz Melamin Gmbh; WO 9623778 A 1996 CAPLUS

(3) Agrolinz Melamin Gmbh; WO 9720826 A 1997 CAPLUS

L4 ANSWER 10 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 2000:169504 CAPLUS

DN 132:181422

TI Process and apparatus for manufacture of melamine

IN Jiang, Dazhou; Tan, Jianping; Jin, Yong; Yao, Wenhui; Dong, Lanzhong

PA Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

09/830,074

V. Balasubramanian

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	CN 1188761	A	19980729	CN 1998-100851	19980224
L4	ANSWER 11 OF 109 CAPLUS COPYRIGHT 2001 ACS				
AN	2000:65910 CAPLUS				
DN	132:82475				
TI	Manufacture of paulownia wood-resin plywood				
IN	Sun, Laiyan; Ma, Yuzhu				
PA	Research Institute of Atomic Energy Utilization, Chinese Academy of Sciences, Peop. Rep. China				
SO	Faming Zhuanli Shenqing Gongkai Shuomingshu, 13 pp.				
	CODEN: CNXXEV				
DT	Patent				
LA	Chinese				
FAN.CNT	1				

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	CN 1174113	A	19980225	CN 1995-108847	19950828
L4	ANSWER 12 OF 109 CAPLUS COPYRIGHT 2001 ACS				
AN	1999:736667 CAPLUS				
DN	131:352824				
TI	Method for preparing melamine				
IN	Wang, Yin				
PA	DSM N.V., Neth.				
SO	PCT Int. Appl., 12 pp.				
	CODEN: PIXXD2				
DT	Patent				
LA	English				
FAN.CNT	1				

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9958508	A1	19991118	WO 1999-NL264	19990503
	W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	GB 2337259	A1	19991117	GB 1999-9901	19990430
	GB 2337259	B2	20000329		
	AU 9937365	A1	19991129	AU 1999-37365	19990503
	EP 1084112	A1	20010321	EP 1999-919709	19990503
	R: AT, DE, ES, FR, GB, IT, NL, SE				
	NO 2000005716	A	20001113	NO 2000-5716	20001113
PRAI	US 1998-85065		19980512		
	WO 1999-N				
L264	19990503				
RE.CNT	4				
RE					
	(1) Manes, M; US 3386999 A 1968 CAPLUS				
	(2) Marullo; US 3116294 A 1960				
	(3) Melamine Chemicals Inc; EP 0747366 A 1996 CAPLUS				
	(4) Murata; US 3308123 A 1967				

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V. Balasubramanian

L4 ANSWER 13 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1999:678213 CAPLUS
DN 131:291014
TI Scale inhibitor for **cooling** water or boiler water systems
IN Ando, Shinya; Ida, Yoshimi; Iimura, Akira; Ano, Shinji; Kibata, Kenji;
Usui, Urara
PA Sanyo Chemical Industries, Ltd., Japan; Kurita Water Industries, Ltd.
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 11290891	A2	19991026	JP 1998-116133	19980410

L4 ANSWER 14 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1999:595151 CAPLUS
DN 131:200777
TI High-pressure process for the manufacture of crystalline melamine
IN Tjioe, Tjay Tjien
PA DSM N.V., Neth.
SO PCT Int. Appl., 28 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9946251	A1	19990916	WO 1999-NL130	19990310
	W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	NL 1008571	C2	19990728	NL 1998-1008571	19980312
	GB 2335191	A1	19990915	GB 1999-5419	19990309
	GB 2335191	B2	20000412		
	AU 9928619	A1	19990927	AU 1999-28619	19990310
	EP 1073646	A1	20010207	EP 1999-909417	19990310
	R: AT, DE, ES, FR, GB, IT, NL, SE				
	DE 19910909	A1	19990923	DE 1999-19910909	19990311
	US 6166204	A	20001226	US 1999-266809	19990312
	NO 2000004508	A	20001110	NO 2000-4508	20000908

PRAI NL 1998-1008571 19980312

WO 1999-N

L130 19990310

RE.CNT 4

RE

- (1) Agrolinz Melamin GMBH; WO 9623778 A 1996 CAPLUS
- (2) DSM; EP 0808836 A 1997 CAPLUS
- (3) Melamine Chemicals Inc; EP 0747366 A 1996 CAPLUS
- (4) Thomas, R; US 4565867 A 1986 CAPLUS

V. Balasubramanian

L4 ANSWER 15 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1999:577943 CAPLUS
DN 132:194684
TI Process for the preparation of melamine
AU Anon.
CS UK
SO Res. Discl. (1999), 424(Aug.), P1109-P1110 (No. 42474)
CODEN: RSDSBB; ISSN: 0374-4353
PB Kenneth Mason Publications Ltd.
DT Journal; Patent
LA English

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	RD 424074		19990810		
PRAI	RD 1999-424074		19990810		

L4 ANSWER 16 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1999:495280 CAPLUS
DN 131:145237
TI Method for **cooling** melamine
IN Coufal, Gerhard
PA Agrolinz Melamin G.m.b.H., Austria
SO PCT Int. Appl., 16 pp.
CODEN: PIXXD2

DT Patent
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 9938852	A1	19990805	WO 1999-EP353	19990120
	W: AM, AU, BG, BR, BY, CA, CN, HR, HU, ID, IL, IN, JP, KP, KR, KZ, LT, MX, NO, NZ, PL, RO, RU, SK, TM, TR, TT, UA, US, UZ, VN				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9927180	A1	19990816	AU 1999-27180	19990120
	EP 1051409	A1	20001115	EP 1999-907392	19990120
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, FI, RO				
	BR 9908145	A	20001128	BR 1999-8145	19990120
	NO 2000003524	A	20000707	NO 2000-3524	20000707
PRAI	AT 1998-159		19980130		
	WO 1999-EP353		19990120		

RE.CNT 2

RE

- (1) Kemira, O; WO 9501345 A 1995 CAPLUS
- (2) Thomas, R; US 4565867 A 1986 CAPLUS

L4 ANSWER 17 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1999:271343 CAPLUS
DN 130:297367
TI Preparation of dry melamine powders by **cooling** melted melamines with liquid ammonia and their apparatus
IN Best, David Edward; Tjioe, Tjay Tjien
PA DSM N.V., Neth.
SO PCT Int. Appl., 17 pp.

V. Balasubramanian

CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9919310	A1	19990422	WO 1998-NL583	19981012
	W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9896525	A1	19990503	AU 1998-96525	19981012
	EP 1025093	A1	20000809	EP 1998-950508	19981012
	R: AT, DE, ES, FR, GB, IT, NL, SE				
	NO 2000001961	A	20000605	NO 2000-1961	20000414
PRAI	US 1997-62574		19971015		
	WO 1998-N				
L583	19981012				

RE.CNT 1

RE

(1) Thomas, R; US 4565867 A 1986 CAPLUS

L4 ANSWER 18 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1999:116736 CAPLUS
DN 130:125509
TI Process and equipment for manufacture of melamine
IN Jiang, Dazhou; Jin, Yong; Yu, Zhiqing; Yi, Jianglin
PA Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 8 pp.
CODEN: CNXXEV

DT Patent
LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1124236	A	19960612	CN 1995-104455	19950614
	CN 1054378	B	20000712		

L4 ANSWER 19 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1999:113610 CAPLUS
DN 130:155746
TI A process for manufacture of stabilized alkali or alkaline earth metal hypobromite and its use in water treatment to control microbial fouling
IN Dallmier, Anthony W.; McCoy, William F.
PA Nalco Chemical Company, USA
SO PCT Int. Appl., 39 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9906320	A1	19990211	WO 1998-US15133	19980722

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W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 5942126	A	19990824	US 1997-904375	19970801
AU 9885060	A1	19990222	AU 1998-85060	19980722
EP 929500	A1	19990721	EP 1998-935905	19980722

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

BR 9806044	A	19990908	BR 1998-6044	19980722
JP 2001501869	T2	20010213	JP 1999-510006	19980722
NO 9900679	A	19990601	NO 1999-679	19990212

PRAI US 1997-904375 19970801
 US 1997-778598 19970103
 WO 1998-US15133 19980722

RE.CNT 6

RE

- (1) Golton, W; US 3749672 A 1973 CAPLUS
- (2) Goodenough, R; US 3558503 A 1971 CAPLUS
- (3) Howarth, J; US 5641520 A 1997 CAPLUS
- (4) Nalco Chemical Co; WO 9734827 A 1997 CAPLUS
- (5) Smyk, E; US 4992209 A 1991 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 20 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1999:109783 CAPLUS

DN 130:267044

TI Hydrothermal Synthesis of Organic Channel Structures: 1:1 Hydrogen-Bonded Adducts of Melamine with Cyanuric and Trithiocyanuric Acids

AU Ranganathan, Anupama; Pedireddi, V. R.; Rao, C. N. R.

CS Chemistry Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, 560 064, India

SO J. Am. Chem. Soc. (1999), 121(8), 1752-1753
 CODEN: JACSAT; ISSN: 0002-7863

PB American Chemical Society

DT Journal

LA English

RE.CNT 10

RE

- (1) Kolotuchin, S; Angew Chem Int Ed Engl 1995, V34, P2654 CAPLUS
- (2) Mathias, J; J Am Chem Soc 1994, V116, P4316 CAPLUS
- (3) Pedireddi, V; J Am Chem Soc 1997, V119, P10867 CAPLUS
- (5) Seto, C; J Am Chem Soc 1993, V115, P905 CAPLUS
- (6) Wang, Y; J Crystallogr Spectrosc Res 1990, V20, P79 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 21 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1999:81358 CAPLUS

DN 130:113720

TI Manufacture of conductive copper-nickel alloy powder, electric conductive paste and electronic equipment

IN Nikaido, Ryuji; Ono, Taiichi; Nishiyama, Nobuyuki

V. Balasubramanian

PA Alps Electric Co., Ltd., Japan; Teikoku Piston Ring Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 11029801	A2	19990202	JP 1997-185570	19970710

L4 ANSWER 22 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1998:806645 CAPLUS

DN 130:53078

TI Method for preparing melamine from urea with **cooling** using
evaporating medium

IN Tjioe, Tjay Tjien; Slangen, Hubertus Jozef Maria

PA Dsm N. V., Neth.

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 9855466	A1	19981210	WO 1998-NL281	19980515
	W: AU, CA, CN, ID, JP, KR, MX, NO, PL, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	NL 1006192	C2	19981203	NL 1997-1006192	19970602
	AU 9875556	A1	19981221	AU 1998-75556	19980515
	AU 728823	B2	20010118		
	EP 986547	A1	20000322	EP 1998-923217	19980515
	R: AT, DE, ES, FR, GB, IT, NL, SE				
	NO 9905886	A	20000126	NO 1999-5886	19991201
PRAI	NL 1997-1006192		19970602		
	EP 1997-201804		19970616		
	WO 1998-N				

L281 19980515

RE.CNT 9

RE

(1) Agrolinz Melamin GMBH; WO 9620182 A 1996 CAPLUS

(2) Agrolinz Melamin GMBH; WO 9620183 A 1996 CAPLUS

(3) Agrolinz Melamin GMBH; WO 9623778 A 1996 CAPLUS

(4) Agrolinz Melamin GMBH; WO 9720826 A 1997 CAPLUS

(5) Best, D; US 5514796 A 1996 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 23 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1998:806644 CAPLUS

DN 130:53077

TI Crystalline melamine manufacture from urea in a high-pressure process

IN Tjioe, Tjay Tjien

PA Dsm N. V., Neth.

SO PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DT Patent

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LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9855465	A1	19981210	WO 1998-NL280	19980515
	W: AU, CA, CN, ID, JP, KR, MX, NO, PL, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	NL 1006191	C2	19981203	NL 1997-1006191	19970602
	AU 9875555	A1	19981221	AU 1998-75555	19980515
	EP 986546	A1	20000322	EP 1998-923216	19980515
	R: AT, DE, ES, FR, GB, IT, NL, SE				
	EP 1035117	A1	20000913	EP 1999-200675	19990308
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	NO 9905885	A	19991201	NO 1999-5885	19991201
	WO 2000053587	A1	20000914	WO 2000-NL129	20000302
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	NL 1997-1006191		19970602		
	EP 1997-201940		19970625		
	WO 1998-N				
L280			19980515		
	EP 1999-200675		19990308		

RE.CNT 6

RE

- (1) Agrolinz Melamin Gmbh; WO 9620182 A 1996 CAPLUS
- (2) Agrolinz Melamin Gmbh; WO 9620183 A 1996 CAPLUS
- (3) Agrolinz Melamin Gmbh; WO 9720826 A 1997 CAPLUS
- (4) Best, D; US 5514796 A 1996 CAPLUS
- (5) Dsm N V; EP 0808836 A 1997 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1998:794994 CAPLUS

DN 130:25724

TI Manufacture of melamine from urea via high-pressure process

IN Tjioe, Tjay Tjien; Slangen, Hubertus Jozef Maria

PA Dsm N.V., Neth.

SO PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9854160	A1	19981203	WO 1998-NL279	19980515
	W: AU, CA, CN, ID, JP, KR, MX, NO, PL, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				

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PT, SE
NL 1006147 C2 19981201 NL 1997-1006147 19970528
AU 9875554 A1 19981230 AU 1998-75554 19980515
AU 729323 B2 20010201
EP 984946 A1 20000315 EP 1998-923215 19980515
R: AT, DE, ES, FR, GB, IT, NL, SE
NO 9905816 A 20000126 NO 1999-5816 19991126
PRAI NL 1997-1006147 19970528
EP 1997-201803 19970616
WO 1998-N
L279 19980515
RE.CNT 9
RE

- (1) Agrolinz Melamin GMBH; WO 9620182 A 1996 CAPLUS
- (2) Agrolinz Melamin GMBH; WO 9620183 A 1996 CAPLUS
- (3) Agrolinz Melamin GMBH; WO 9623778 A 1996 CAPLUS
- (4) Agrolinz Melamin GMBH; WO 9720826 A 1997 CAPLUS
- (5) Best, D; US 5514796 A 1996 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 25 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1998:789134 CAPLUS
DN 130:25723
TI Method for preparing high-purity solid melamine with ammonia
cooling stage
IN Tjioe, Tjay Tjien
PA Dsm N.V., Neth.
SO PCT Int. Appl., 17 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9852928	A1	19981126	WO 1998-NL278	19980515
	W: AU, CA, CN, ID, JP, KR, MX, NO, PL, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	NL 1006095	C2	19981125	NL 1997-1006095	19970521
	AU 9875553	A1	19981211	AU 1998-75553	19980515
	AU 728549	B2	20010111		
	EP 983250	A1	20000308	EP 1998-923214	19980515
	R: AT, DE, ES, FR, GB, IT, NL, SE				
	NO 9905694	A	19991119	NO 1999-5694	19991119
PRAI	NL 1997-1006095		19970521		
	EP 1997-201806		19970616		
	WO 1998-N				

L278 19980515

RE.CNT 9

RE

- (1) Agrolinz Melamin GMBH; WO 9620182 A 1996 CAPLUS
- (2) Agrolinz Melamin GMBH; WO 9620183 A 1996 CAPLUS
- (3) Agrolinz Melamin GMBH; WO 9623778 A 1996 CAPLUS
- (4) Agrolinz Melamin GMBH; WO 9720826 A 1997 CAPLUS
- (5) Best, D; US 5514796 A 1996 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

V. Balasubramanian

L4 ANSWER 26 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1998:721867 CAPLUS
DN 129:290777
TI Process for reducing the amount of melam and melem in crude melamine
IN Jaeger, Emmerich; Zenkl, Ernst; Proemer, Sylvia; Kloeckl, Wolfgang
PA Agrolinz Melamin Gmbh, Austria
SO Austrian, 4 pp.
CODEN: AUXXAK
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	AT 404018	B	19980727	AT 1995-81	19950120
	AT 9500081	A	19971215		

L4 ANSWER 27 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1998:424234 CAPLUS
DN 129:96130
TI Manufacture of melamine from urea
IN Van Wijck, Julius Gerardus Theodorus
PA Dsm N.V., Neth.; Van Wijck, Julius Gerardus Theodorus
SO PCT Int. Appl., 15 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 9827071	A1	19980625	WO 1997-NL683	19971211
	W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	NL 1004814	C2	19980619	NL 1996-1004814	19961218
	AU 9853462	A1	19980715	AU 1998-53462	19971211
PRAI	US 1996-32736		19961216		
	NL 1996-1004814		19961218		
	WO 1997-N				
L683	19971211				

L4 ANSWER 28 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1998:331573 CAPLUS
DN 129:28386
TI Intumescent thermoplastic polyamide graft polymers
IN Moore, William Percy
PA Agrinutrients Company, Inc., USA
SO U.S., 8 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

09/830,074

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 5756571	A	19980526	US 1997-799842	19970213

L4 ANSWER 29 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1998:102852 CAPLUS
DN 128:128704
TI Manufacture of highly pure solid melamine from urea melt by high-pressure and **cooling** with ammonia
IN Van Wijck, Julius Gerardus Theodorus
PA DSM N.V., Neth.; Van Wijck, Julius Gerardus Theodorus
SO PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 9804533	A1	19980205	WO 1997-NL431	19970721
	W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	NL 1003709	C2	19980205	NL 1996-1003709	19960730
	CA 2261634	AA	19980205	CA 1997-2261634	19970721
	AU 9734660	A1	19980220	AU 1997-34660	19970721
	AU 719337	B2	20000504		
	EP 929531	A1	19990721	EP 1997-930895	19970721
	R: AT, DE, ES, FR, GB, IT, NL, SE				
	CN 1230952	A	19991006	CN 1997-198115	19970721
	JP 2000515880	T2	20001128	JP 1998-508718	19970721
	NO 9900337	A	19990315	NO 1999-337	19990125
PRAI	NL 1996-1003709		19960730		
	WO 1997-N				
L431	19970721				

L4 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1998:71594 CAPLUS
DN 128:169382
TI Fibrous chemical compounds as intermediates of hexagonal boron nitride and their manufacture
IN Faustinus, Fauzi; Tani, Masato; Suzue, Masayoshi
PA Otsuka Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 10025296	A2	19980127	JP 1996-199613	19960709

V. Balasubramanian

L4 ANSWER 31 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1998:13948 CAPLUS
 DN 128:62246
 TI Manufacture of highly pure melamine obtained from urea plant
 IN Van Wijck, Julius Gerardus Theodorus
 PA DSM N.V., Neth.; Van Wijck, Julius Gerardus Theodorus
 SO PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9747609	A1	19971218	WO 1997-NL333	19970611
	W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	NL 1003328	C2	19971217	NL 1996-1003328	19960613
	CA 2258162	AA	19971218	CA 1997-2258162	19970611
	AU 9731085	A1	19980107	AU 1997-31085	19970611
	AU 720041	B2	20000525		
	EP 920420	A1	19990609	EP 1997-926281	19970611
	R: AT, DE, ES, FR, GB, IT, NL, SE, FI				
	CN 1227549	A	19990901	CN 1997-197012	19970611
	JP 2000511926	T2	20000912	JP 1998-501483	19970611
	NO 9805744	A	19990129	NO 1998-5744	19981208
PRAI	NL 1996-1003328		19960613		
	WO 1997-N				
L333					19970611

L4 ANSWER 32 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1997:761905 CAPLUS
 DN 128:4277
 TI High-pressure noncatalytic process for recovery of melamine from urea pyrolysis reaction products
 IN Van Wijck, Julius Gerardus Theodorus; De Haan, Andre Banier; Biermans, Andreas Johannes; Hardeveld, Van Rudolf
 PA DSM N.V., Neth.
 SO Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 808836	A1	19971126	EP 1997-201380	19970507
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, FI				
	NL 1003105	C2	19971118	NL 1996-1003105	19960514
	CN 1170720	A	19980121	CN 1997-111425	19970513
	JP 10045730	A2	19980217	JP 1997-123616	19970514
	CN 1273243	A	20001115	CN 2000-104974	20000403
PRAI	NL 1996-1003105		19960514		

V. Balasubramanian

L4 ANSWER 33 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1997:640651 CAPLUS
 DN 127:263589
 TI Manufacture of high purity melamine from urea
 IN Van Wijck, Julius Gerardus Theodorus; Sampers, Theodorus Josephus Anna Maria; De Haan, Andre Banier
 PA DSM N.V., Neth.; Van Wijck, Julius Gerardus Theodorus; Sampers, Theodorus Josephus Anna Maria; De Haan, Andre Banier
 SO PCT Int. Appl., 21 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9734879	A1	19970925	WO 1997-NL146	19970320
	W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	NL 1002669	C2	19970923	NL 1996-1002669	19960321
	AU 9719475	A1	19971010	AU 1997-19475	19970320
	AU 715825	B2	20000210		
	EP 888315	A1	19990107	EP 1997-907484	19970320
	R: AT, DE, ES, FR, GB, IT, NL, SE				
	CN 1218458	A	19990602	CN 1997-194661	19970320
	JP 2000506882	T2	20000606	JP 1997-533378	19970320
	NO 9804324	A	19981117	NO 1998-4324	19980917
PRAI	NL 1996-1002669		19960321		
	WO 1997-N				
L146	19970320				

L4 ANSWER 34 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1997:586031 CAPLUS
 DN 127:248792
 TI Mechanistic study of fire-retardant action of melamine and its salts in nylon 6
 AU Levchik, S. V.; Balabanovich, A. I.; Levchik, G. F.; Costa, L.
 CS Research Institute for Physical Chemical Problems of Byelorussian University, Minsk, Belarus
 SO Recent Adv. Flame Retard. Polym. Mater. (1997), Volume Date 1996, 7, 64-76
 CODEN: RAFMFH
 PB Business Communications Co.
 DT Journal
 LA English

L4 ANSWER 35 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1997:330591 CAPLUS
 DN 126:318128
 TI Effect of melamine and its salts on combustion and thermal decomposition of polyamide 6

V. Balasubramanian

AU Levchik, S. V.; Balabanovich, A. I.; Levchik, G. F.; Costa, L.
 CS Research Institute for Physical Chemical Problems of Byelorussian
 University, Minsk, 220080, Belarus
 SO Fire Mater. (1997), 21(2), 75-83
 CODEN: FMATDV; ISSN: 0308-0501
 PB Wiley
 DT Journal
 LA English

L4 ANSWER 36 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1997:328905 CAPLUS
 DN 126:306133
 TI Elasticized melamine resins
 IN Utecht, Jens; Niessner, Manfred; Kirchgaessner, Uwe; Wittmann, Otto;
 Decher, Jakob; Jaekkh, Christof; Meier, Anton
 PA BASF A.-G., Germany
 SO Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 764669	A1	19970326	EP 1996-114804	19960916
	EP 764669	B1	19990602		
	R: AT, BE, DE, ES, FR, GB, IT, NL, SE				
	DE 19535255	A1	19970327	DE 1995-19535255	19950922
	AT 180800	E	19990615	AT 1996-114804	19960916
	ES 2134545	T3	19991001	ES 1996-114804	19960916
PRAI	DE 1995-19535255		19950922		

L4 ANSWER 37 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1997:244187 CAPLUS
 DN 126:226765
 TI Manufacture of film-forming, aqueous, metal phosphate-amine complexes and
 their use for fire-resistant materials
 IN von Bonin, Wulf; Jabs, Gert; Kirchmeyer, Stephan; Raffel, Bolko; Wussow,
 Klaus
 PA Bayer A.-G., Germany
 SO Ger. Offen., 15 pp.
 CODEN: GWXXBX
 DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19529408	A1	19970213	DE 1995-19529408	19950810
	EP 758676	A2	19970219	EP 1996-112212	19960729
	EP 758676	A3	19971210		
	R: DE, FR, GB, IT				
	JP 09217064	A2	19970819	JP 1996-223248	19960807
PRAI	DE 1995-19529408		19950810		

L4 ANSWER 38 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1996:693765 CAPLUS
 DN 125:302885

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TI Manufacture of poly(phenylene oxide) laminates having good dielectric property under ultrahigh-frequency regions
 IN Koseki, Takayoshi; Yamakawa, Seishiro; Yamamoto, Hiroshi; Hirata, Isao
 PA Matsushita Electric Works Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08225665	A2	19960903	JP 1995-32045	19950221
	JP 3077550	B2	20000814		

L4 ANSWER 39 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1996:628362 CAPLUS
 DN 125:250939

TI Manufacture of guanidine and melamine phosphate
 PA Chemie Linz (Deutschland) Gmbh I.L., Germany
 SO Ger. Offen., 3 pp.
 CODEN: GWXXBX

DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19506330	A1	19960829	DE 1995-19506330	19950223

L4 ANSWER 40 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1996:531799 CAPLUS
 DN 125:168027

TI Process for producing high-purity melamine
 IN Canzi, Lorenzo; Canzi, Aldo; Coufal, Gerhard; Giacomuzzo, Silvano; Virardi, Mario; Muellner, Martin
 PA Agrolinz Melamin Gmbh, Austria
 SO PCT Int. Appl., 20 pp.
 CODEN: PIXXD2

DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9620182	A1	19960704	WO 1995-EP4919	19951213
	W: AM, AU, BG, BR, BY, CA, CN, HU, JP, KP, KR, KZ, LT, MX, NO, NZ, PL, RO, RU, SK, TM, TT, UA, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AT 9402392	A	19960815	AT 1994-2392	19941223
	AT 402294	B	19970325		
	US 5721363	A	19980224	US 1995-570863	19951212
	CA 2207059	AA	19960704	CA 1995-2207059	19951213
	AU 9643861	A1	19960719	AU 1996-43861	19951213
	AU 692034	B2	19980528		
	EP 799212	A1	19971008	EP 1995-942661	19951213
	EP 799212	B1	19990127		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT				

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BR 9510363	A	19971223	BR 1995-10363	19951213
CN 1171102	A	19980121	CN 1995-197018	19951213
HU 77060	A2	19980302	HU 1997-2136	19951213
HU 217784	B	20000428		
JP 10511368	T2	19981104	JP 1995-520158	19951213
AT 176228	E	19990215	AT 1995-942661	19951213
ES 2128798	T3	19990516	ES 1995-942661	19951213
RO 115874	B1	20000728	RO 1997-1137	19951213
RO 116276	B1	20001229	RO 1995-141	19951213
ZA 9510900	A	19960624	ZA 1995-10900	19951221
NO 9702869	A	19970814	NO 1997-2869	19970620
PRAI AT 1994-2392		19941223		
WO 1995-EP4919		19951213		

L4 ANSWER 41 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1996:333077 CAPLUS
 DN 125:59982
 TI Melamine of improved purity produced by high-pressure, non-catalytic process
 IN Best, David; Gupta, Amit
 PA Melamine Chemicals, Inc., USA
 SO U.S., 6 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5514796	A	19960507	US 1995-478088	19950607
	ZA 9603945	A	19961210	ZA 1996-3945	19960517
	EP 747366	A2	19961211	EP 1996-303675	19960523
	EP 747366	A3	19990210		
	R: AT, DE, ES, FR, GB, IE, IT, NL				
	CA 2177521	AA	19961208	CA 1996-2177521	19960528
	NO 9602339	A	19961209	NO 1996-2339	19960605
	AU 9654732	A1	19961219	AU 1996-54732	19960605
	AU 706404	B2	19990617		
	BR 9602673	A	19981110	BR 1996-2673	19960605
	JP 09012559	A2	19970114	JP 1996-166788	19960606
PRAI	US 1995-478088		19950607		

L4 ANSWER 42 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1996:222250 CAPLUS
 DN 124:261083
 TI Preparation of cyanuric acid by deposition from a gaseous isocyanic acid-ammonia mixture.
 IN Schulz, Erich; Haeubl, Georg; Muellner, Martin
 PA Chemie Linz GmbH, Austria
 SO Eur. Pat. Appl., 6 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 693484	A1	19960124	EP 1995-110910	19950712

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R: AT, DE, FR, IT, NL

AT 9401454	A	19970715	AT 1994-1454	19940722
AT 403475	B	19980225		
JP 08099964	A2	19960416	JP 1995-186032	19950721
US 5578723	A	19961126	US 1995-505820	19950721

PRAI AT 1994-1454 19940722

L4 ANSWER 43 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1996:125569 CAPLUS
 DN 124:248618
 TI Ba₂Na(CN₂)(CN)₃, a novel cyanamide cyanide with interpenetrating substructures
 AU Berger, Ute; Schnick, Wolfgang
 CS Laboratorium Anorganische Chemie, Universitaet Bayreuth, Bayreuth, D-95440, Germany
 SO Z. Naturforsch., B: Chem. Sci. (1996), 51(1), 1-8
 CODEN: ZNBSEN; ISSN: 0932-0776
 DT Journal
 LA German

L4 ANSWER 44 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1995:810395 CAPLUS
 DN 123:200575
 TI Preparation of highly pure melamine
 IN Turunen, Ilkka; Oinas, Pekka
 PA Kemira Oy, Finland
 SO PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9501345	A1	19950112	WO 1994-FI307	19940701
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FI 9303033	A	19950102	FI 1993-3033	19930701
	FI 96028	B	19960115		
	FI 96028	C	19960425		
	EP 706519	A1	19960417	EP 1994-919702	19940701
	EP 706519	B1	19991208		
	R: AT, BE, DE, ES, FR, IT, NL, PT				
	JP 08512042	T2	19961217	JP 1994-503303	19940701
	AT 187446	E	19991215	AT 1994-919702	19940701
	ES 2141238	T3	20000316	ES 1994-919702	19940701
	US 5731437	A	19980324	US 1996-571929	19960613
PRAI	FI 1993-3033		19930701		
	WO 1994-FI307		19940701		

L4 ANSWER 45 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1995:668368 CAPLUS
 DN 123:121236
 TI Cement dispersant containing amino acid-containing copolycondensates for preventing slump loss
 IN Yamato, Fujio; Fujita, Shuichi; Yadokoro, Yoshiaki; Sato, Haruyuki
 PA Kao Corp, Japan

V. Balasubramanian

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 07109158	A2	19950425	JP 1993-257166	19931014

L4 ANSWER 46 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1995:386253 CAPLUS

DN 122:160690

TI Method of obtaining 2,4,6-triamino-1,3,5-triazine hydroperoxide

IN Klopotek, Alojzy; Jasion, Stefania; Osinska, Longina; Klopotek, Beata B.

PA Instytut Chemii Przemyslowej, Pol.

SO Pol., 6 pp.

CODEN: POXXA7

DT Patent

LA Polish

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	PL 160869	B1	19930430	PL 1989-281796	19891011

L4 ANSWER 47 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1995:383028 CAPLUS

DN 123:57580

TI Fluidized-bed reactor process for manufacturing melamine from urea at elevated pressures

IN Lee, Jing M.

PA USA

SO U.S., 6 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5384404	A	19950124	US 1993-147848	19931105
	WO 9620933	A1	19960711	WO 1995-US36	19950103

W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

	AU 9515972	A1	19960724	AU 1995-15972	19950103
PRAI	US 1993-147848		19931105		
	WO 1995-US36		19950103		

L4 ANSWER 48 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1994:582509 CAPLUS

DN 121:182509

TI High-pressure noncatalytic melamine production reactor

IN Bizzotto, Wladimiro

PA Italy

SO Eur. Pat. Appl., 8 pp.

09/830,074

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CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 612560	A1	19940831	EP 1994-102126	19940211
	EP 612560	B1	19960103		
	R: AT, BE, CH, DE, ES, FR, GB, LI, NL				
	AT 132392	E	19960115	AT 1994-102126	19940211
	ES 2084518	T3	19960501	ES 1994-102126	19940211
	US 5486339	A	19960123	US 1994-197175	19940216
PRAI	IT 1993-VI25		19930222		

L4 ANSWER 49 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1994:301265 CAPLUS

DN 120:301265

TI Oleoresinous-synthetic varnish preparation

IN Berdnikov, Mikhail P.

PA USSR

SO U.S.S.R.

From: Izobreteniya 1992, (35), 99.

CODEN: URXXAF

DT Patent

LA Russian

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	SU 1763463	A1	19920923	SU 1988-4476230	19880712

L4 ANSWER 50 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1993:561607 CAPLUS

DN 119:161607

TI Preparation of melamine cyanurate-containing phosphate mixtures with ammonium, melamine, and alkaline earth metal cations

IN Feldmann, Walter; Schmidt, Cordelia

PA Stickstoffwerke AG Wittenberg-Piesteritz, Germany

SO Ger. Offen., 6 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4124380	A1	19930128	DE 1991-4124380	19910723

L4 ANSWER 51 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1993:175472 CAPLUS

DN 118:175472

TI Biocidal scale inhibitors for cooling water systems

IN Klopotek, Alojzy; Klopotek, Beata B.; Wlasiuk, Danuta; Haman, Waldemar; Brambor, Andrzej; Murawski, Roman; Marcisiak, Jan

PA Instytut Chemii Przemyslowej, Pol.

SO Pol., 5 pp.

CODEN: POXXA7

DT Patent

V. Balasubramanian

LA Polish

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	PL 154996	B1	19911031	PL 1987-268071	19871005

L4 ANSWER 52 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1993:84038 CAPLUS

DN 118:84038

TI Propellants for gas generators, their manufacture, and safety bag systems containing the propellants

IN Redecker, Klaus; Weuter, Waldemar

PA Dynamit Nobel A.-G., Germany

SO Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 519485	A1	19921223	EP 1992-110353	19920619
	R: DE, ES, FR, GB, IT, NL, PT, SE				
	DE 4220019	A1	19921224	DE 1992-4220019	19920619
PRAI	DE 1991-4120599		19910621		
OS	MARPAT 118:84038				

L4 ANSWER 53 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1991:633759 CAPLUS

DN 115:233759

TI Fire-retardant compositions for polyurethane foam manufacture

IN Duber, Ernst Otto; Muller, Louis

PA Imperial Chemical Industries PLC, UK

SO Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 422797	A1	19910417	EP 1990-310543	19900926
	EP 422797	B1	19941130		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
	EP 428258	A1	19910522	EP 1990-310542	19900926
	EP 428258	B1	19950517		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
	ES 2064657	T3	19950201	ES 1990-310543	19900926
	ES 2071779	T3	19950701	ES 1990-310542	19900926
	AU 9063701	A1	19910418	AU 1990-63701	19901002
	AU 629404	B2	19921001		
	ZA 9007939	A	19910828	ZA 1990-7939	19901004
	US 5177118	A	19930105	US 1990-594261	19901009
	CA 2027256	AA	19910412	CA 1990-2027256	19901010
	NO 9004383	A	19910412	NO 1990-4383	19901010
	JP 03152158	A2	19910628	JP 1990-273112	19901011
	JP 3048244	B2	20000605		
	JP 03152159	A2	19910628	JP 1990-273113	19901011

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JP 3083147 B2 20000904
US 6130267 A 20001010 US 1992-914228 19920713
PRAI GB 1989-22930 19891011
US 1990-594244 19901009

L4 ANSWER 54 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1991:518062 CAPLUS
DN 115:118062
TI Removal of especially arsenic, phosphorus, sulfur, silicon, and
molybdenum
impurities from tungsten ores
IN Grunt, Miloslav; Kodytek, Vilem
PA Czech.
SO Czech., 3 pp.
CODEN: CZXXA9
DT Patent
LA Czech
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	CS 268745	B1	19900411	CS 1988-5893	19880901

L4 ANSWER 55 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1991:450591 CAPLUS
DN 115:50591
TI Improvement of the impact resistance of polyoxymethylene polymers
IN Niino, Masahiko
PA Asahi Chemical Industry Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 03047819	A2	19910228	JP 1989-182561	19890717
	JP 2829039	B2	19981125		

L4 ANSWER 56 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1991:410792 CAPLUS
DN 115:10792
TI Process for the production of aqueous solutions suitable for finishing
cellulose-containing textile materials
IN Bereck, Attila; Flory, Klaus; Kummer, Matthias
PA BASF A.-G., Fed. Rep. Ger.
SO Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 392349	A1	19901017	EP 1990-106514	19900405
	EP 392349	B1	19940112		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
	DE 3912084	A1	19901025	DE 1989-3912084	19890413

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CA 2013060	AA	19901013	CA 1990-2013060	19900326
AT 100122	E	19940115	AT 1990-106514	19900405
ES 2047740	T3	19940301	ES 1990-106514	19900405
US 6001132	A	19991214	US 1990-504881	19900405
JP 02292249	A2	19901203	JP 1990-92362	19900409
JP 3130911	B2	20010131		
PRAI DE 1989-3912084		19890413		
EP 1990-106514		19900405		
OS MARPAT 115:10792				

L4 ANSWER 57 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1991:251118 CAPLUS
 DN 114:251118
 TI Recovery of tungsten from diluted solutions
 IN Kodytek, Vilem; Grunt, Miloslav
 PA Czech.
 SO Czech., 5 pp.
 CODEN: CZXXA9
 DT Patent
 LA Czech
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	CS 263308	B1	19890414	CS 1987-4731	19870625

L4 ANSWER 58 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1991:230753 CAPLUS
 DN 114:230753
 TI Preparation of blocked triazine derivative polyisocyanates for use in coatings
 IN Halpaap, Reinhard; Duenwald, Wilhelm; Casselmann, Holger; Schlegel, Hans
 PA Bayer A.-G., Fed. Rep. Ger.
 SO Eur. Pat. Appl., 14 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 419965	A2	19910403	EP 1990-117704	19900914
	EP 419965	A3	19920115		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	DE 3932168	A1	19910404	DE 1989-3932168	19890927
	CA 2025814	AA	19910328	CA 1990-2025814	19900920
	US 5071938	A	19911210	US 1990-586478	19900921
	JP 03122111	A2	19910524	JP 1990-252082	19900925
	BR 9004821	A	19910910	BR 1990-4821	19900926
	DD 299181	A5	19920402	DD 1990-344221	19900926
PRAI DE 1989-3932168			19890927		

L4 ANSWER 59 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1991:28894 CAPLUS
 DN 114:28894
 TI Coating of glass with transparent electric conductive film
 IN Watanabe, Kane; Aoyama, Junichi
 PA Miura Printing Co., Ltd., Japan

V. Balasubramanian

SO Jpn. Kokai Tokkyo Koho, 2 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02157140	A2	19900615	JP 1988-309634	19881207

L4 ANSWER 60 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1990:554509 CAPLUS

DN 113:154509

TI Application of a painted film to a three-dimensional object

IN Godwin, Berner; Misev, Ljubomir

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 6 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 361351	A2	19900404	EP 1989-117639	19890925
	EP 361351	A3	19911023		
	EP 361351	B1	19960403		
	R: BE, DE, ES, FR, GB, IT, NL, SE				
	BR 8904871	A	19900508	BR 1989-4871	19890926
	ZA 8907305	A	19900627	ZA 1989-7305	19890926
	JP 02127025	A2	19900515	JP 1989-251736	19890927
	JP 2784946	B2	19980813		
	US 5387304	A	19950207	US 1993-32152	19930315
PRAI	CH 1988-3574		19880927		
	US 1989-411338		19890922		
	US 1991-783445		19911025		

L4 ANSWER 61 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1990:407987 CAPLUS

DN 113:7987

TI Impregnation of synthetic and natural fabrics to impart fire resistance and antistatic properties

IN Cichomski, Stanislaw; Lisiewska, Zofia; Zyska, Bronislaw; Kulawski, Jerzy;

Wachowicz, Jan; Stencel, Aldona

PA Glowny Instytut Gornictwa, Pol.

SO Pol., 3 pp.

CODEN: POXXA7

DT Patent

LA Polish

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 134689	B1	19850930	PL 1983-241477	19830412

L4 ANSWER 62 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1989:425066 CAPLUS

DN 111:25066

V. Balasubramanian

TI Coating removal from coating equipment
 IN Yokoyama, Hiroaki; Okami, Mitsuhiro
 PA Zenken K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63294970	A2	19881201	JP 1987-127188	19870526

L4 ANSWER 63 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1989:137107 CAPLUS
 DN 110:137107
 TI Thermoreactive epoxy resin powder compositions
 IN Jelinek, Karel; Stary, Stanislav; Cerny, Jaroslav; Hajkova, Bohuslava;
 Sima, Milan
 PA Czech.
 SO Czech., 4 pp.
 CODEN: CZXXA9

DT Patent
 LA Czech

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 253100	B1	19871015	CS 1986-1262	19860224

L4 ANSWER 64 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1988:615129 CAPLUS
 DN 109:215129
 TI Admixtures for cement to improve strength
 IN Goto, Tokio; Yamaguchi, Koichi
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63147848	A2	19880620	JP 1986-291517	19861209

L4 ANSWER 65 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1987:460030 CAPLUS
 DN 107:60030
 TI Utilization of melamine waste effluent
 IN Lahalih, Shawqui; Absi-Halabi, Ma Mun
 PA Kuwait Institute for Scientific Research, Kuwait
 SO U.S., 9 pp.
 CODEN: USXXAM

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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V. Balasubramanian

PI	US 4663387	A	19870505	US 1985-719158	19850402
	US 4797433	A	19890110	US 1986-899889	19860825
PRAI	US 1985-719158		19850402		

L4 ANSWER 66 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1987:157408 CAPLUS
DN 106:157408
TI Process for making solid urea-formaldehyde resins
IN Taylor, David
PA BIP Chemicals Ltd., UK
SO Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 211531	A2	19870225	EP 1986-305340	19860711
	EP 211531	A3	19881012		
	EP 211531	B1	19910904		
	R: CH, DE, FR, IT, LI, SE				
	US 4691001	A	19870901	US 1985-793318	19851031
	CA 1278138	A1	19901218	CA 1986-514108	19860718
	ZA 8605459	A	19870225	ZA 1986-5459	19860722
	JP 62034913	A2	19870214	JP 1986-181183	19860731
	ES 2000588	A6	19880301	ES 1986-774	19860731
PRAI	GB 1985-19392		19850801		
	GB 1984-4758		19840223		
	US 1985-704405		19850222		

L4 ANSWER 67 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1986:627952 CAPLUS
DN 105:227952
TI Flame retardants for polyolefins
IN Ogawa, Yoshikatsu; Hisada, Haruhiko; Kasahara, Takeshi; Kizaki, Fumihiko; Yosha, Masahide; Yoshiya, Masahide
PA Marubishi Oil Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 61106643	A2	19860524	JP 1984-226677	19841030
	JP 05050536	B4	19930729		
	EP 241605	A1	19871021	EP 1986-302680	19860410
	EP 241605	B1	19911030		
	R: DE, FR, GB				
PRAI	JP 1984-226677		19841030		

L4 ANSWER 68 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1986:581602 CAPLUS
DN 105:181602
TI Microencapsulation process, multi-walled microcapsules, and transfer sheet

V. Balasubramanian

record material
IN Vassiliades, Anthony E.
PA USA
SO U.S., 6 pp. Cont. of U.S. Ser. No. 173,303, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4586060	A	19860429	US 1983-513698	19830714
PRAI	US 1980-173303		19800729		

L4 ANSWER 69 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1986:426523 CAPLUS
DN 105:26523
TI Corrosion inhibition of heat exchangers in combustion apparatus for water and room heating
IN Fukuda, Yu; Kaneko, Yasunori
PA Matsushita Electric Industrial Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61015044	A2	19860123	JP 1984-134250	19840628

L4 ANSWER 70 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1986:206729 CAPLUS
DN 104:206729
TI Oxalyl fluoride
IN Nishimura, Masakatsu; Hirai, Yasuhiko
PA Tokuyama Soda Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60260534	A2	19851223	JP 1984-115469	19840607
	JP 05014701	B4	19930225		

L4 ANSWER 71 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1986:130816 CAPLUS
DN 104:130816
TI Impregnating mixtures based on phenolic resins
IN Goetzky, Peter; Doering, Dieter; Fielitz, Ilse; Grubits, Reinhard; Hitzer,
Hannelore; Raubach, Heinz; Quast, Otto
PA VEB Sprela-Werke Spremberg Betriebsteil Plasta Erkner, Ger. Dem. Rep.
SO Ger. (East), 13 pp.
CODEN: GEXXA8
DT Patent

09/830,074

V. Balasubramanian

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DD 223155	A1	19850605	DD 1984-262235	19840424

L4 ANSWER 72 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1986:34857 CAPLUS

DN 104:34857

TI Urea-formaldehyde resin

IN Taylor, David

PA BIP Chemicals Ltd., UK

SO Ger. Offen., 15 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	DE 3505575	A1	19850829	DE 1985-3505575	19850218
	ZA 8501212	A	19851030	ZA 1985-1212	19850218
	SE 8500810	A	19850824	SE 1985-810	19850220
	SE 460850	B	19891127		
	SE 460850	C	19910620		
	FR 2560201	A1	19850830	FR 1985-2608	19850222
	FR 2560201	B1	19900427		
	GB 2155941	A1	19851002	GB 1985-4687	19850222
	GB 2155941	B2	19880127		
	JP 60215010	A2	19851028	JP 1985-32990	19850222
	JP 05086805	B4	19931214		
	US 4564667	A	19860114	US 1985-704405	19850222
	ES 540633	A1	19860316	ES 1985-540633	19850222
	CA 1238998	A1	19880705	CA 1985-474900	19850222
	US 4691001	A	19870901	US 1985-793318	19851031
	GB 2183664	A1	19870610	GB 1986-26498	19861106
	GB 2183664	B2	19880127		
PRAI	GB 1984-4758		19840223		
	GB 1985-4687		19850222		
	US 1985-704405		19850222		
	GB 1985-19392		19850801		

L4 ANSWER 73 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1985:505009 CAPLUS

DN 103:105009

TI Pure cyanuric acid

IN Lunzer, Friedrich; Garber, Alfred

PA Chemie Linz A.-G., Austria

SO Austrian, 6 pp.

CODEN: AUXXAK

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	AT 377983	B	19850528	AT 1983-1770	19830516
	AT 8301770	A	19841015		

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L4 ANSWER 74 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1985:132502 CAPLUS
DN 102:132502
TI Optimum design for synthesis reaction of melamine
AU Kim, Ju Ryol; Li, Chung Ji; Li, Un Sun
CS N. Korea
SO Choson Minjujuui Inmin Konghwaguk Kwahagwon Tongbo (1984), (6), 29-32
CODEN: CKWTAN; ISSN: 0366-6662
DT Journal
LA Korean

L4 ANSWER 75 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1985:38440 CAPLUS
DN 102:38440
TI Glasslike carbon material
IN Yamauchi, Michihide; Kishine, Nobuyuki; Imamura, Tetsuya
PA Kao Corp., Japan
SO Eur. Pat. Appl., 48 pp.
CODEN: EPXXDW
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 121781	A2	19841017	EP 1984-102495	19840308
	EP 121781	A3	19860305		
	EP 121781	B1	19890412		
	R: DE, FR, GB, IT, NL				
	JP 59169915	A2	19840926	JP 1983-39709	19830309
	JP 64000321	B4	19890106		
	JP 60171208	A2	19850904	JP 1984-24004	19840210
	JP 63062472	B4	19881202		
	JP 60171209	A2	19850904	JP 1984-24005	19840210
	JP 63046004	B4	19880913		
	JP 60171210	A2	19850904	JP 1984-24006	19840210
	JP 63044684	B4	19880906		
	JP 60171211	A2	19850904	JP 1984-24007	19840210
	JP 60171206	A2	19850904	JP 1984-26297	19840214
	JP 07025525	B4	19950322		
PRAI	JP 1983-39709		19830309		
	JP 1984-24004		19840210		
	JP 1984-24005		19840210		
	JP 1984-24006		19840210		
	JP 1984-24007		19840210		
	JP 1984-26297		19840214		

L4 ANSWER 76 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1984:572315 CAPLUS
DN 101:172315
TI Melamine
IN Fromm, Dieter; Widmann, Alfred; Schneehage, Hans Henning; Schier, Ernst
Juergen; Grube, Helmuth; Molzahn, Martin; Auer, Heinz
PA BASF A.-G. , Fed. Rep. Ger.
SO Ger. Offen., 16 pp.
CODEN: GWXXBX

V. Balasubramanian

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3302833	A1	19840802	DE 1983-3302833	19830128
	DE 3302833	C2	19870115		
	JP 59141570	A2	19840814	JP 1984-12211	19840127
	JP 03069346	B4	19911031		
PRAI	DE 1983-3302833		19830128		

L4 ANSWER 77 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1983:595914 CAPLUS

DN 99:195914

TI Melamine

IN Van Hardeveld, Rudolf

PA Stamicarbon B. V. , Neth.

SO U.S., 5 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4408046	A	19831004	US 1982-368971	19820416
	NL 8201479	A	19831101	NL 1982-1479	19820407
	IN 158211	A	19860927	IN 1983-CA269	19830303
	EP 91174	A1	19831012	EP 1983-200475	19830401
	EP 91174	B1	19871104		
	R: AT, BE, DE, FR, GB, IT, NL, SE				
	AT 30586	E	19871115	AT 1983-200475	19830401
	ZA 8302405	A	19831228	ZA 1983-2405	19830405
	DD 209625	A5	19840516	DD 1983-249564	19830405
	RO 89260	B3	19860315	RO 1983-110557	19830405
	NO 8301230	A	19831010	NO 1983-1230	19830406
	NO 163009	B	19891211		
	NO 163009	C	19900321		
	JP 58185573	A2	19831029	JP 1983-60638	19830406
	JP 04080908	B4	19921221		
	BR 8301744	A	19831213	BR 1983-1744	19830406
	ES 521272	A1	19840116	ES 1983-521272	19830406
	HU 33128	O	19841029	HU 1983-1185	19830406
	HU 190834	B	19861128		
	CS 241054	B2	19860313	CS 1983-2426	19830406
	PL 142730	B1	19871130	PL 1983-241365	19830406
	SU 1424734	A3	19880915	SU 1983-3584512	19830406
	CA 1244423	A1	19881108	CA 1983-425318	19830406
PRAI	NL 1982-1479		19820407		
	EP 1983-200475		19830401		

L4 ANSWER 78 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1983:506437 CAPLUS

DN 99:106437

TI Fabricating total heat exchangers

PA Nittetsu Mining Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

V. Balasubramanian

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 58038149	A2	19830305	JP 1981-136079	19810901

L4 ANSWER 79 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1983:109751 CAPLUS

DN 98:109751

TI Separation of liquid drops from exhaust gases

IN Yamamoto, Satoshi; Hase, Osamu; Kawata, Tamostu

PA Yuka Melamine Co., Ltd., Japan

SO Ger. Offen., 22 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	DE 3212415	A1	19821021	DE 1982-3212415	19820402
	JP 57165375	A2	19821012	JP 1981-49693	19810402
	JP 03018622	B4	19910313		
	CA 1219599	A1	19870324	CA 1982-400021	19820331
	US 4451271	A	19840529	US 1982-364272	19820401
	FR 2502973	A1	19821008	FR 1982-5805	19820402
	FR 2502973	B1	19850517		
PRAI	JP 1981-49693		19810402		

L4 ANSWER 80 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1981:483231 CAPLUS

DN 95:83231

TI High temperature two-component explosive

IN Mars, James E.; Poole, Donald R.; Schmidt, Eckart W.; Wang, Charles

PA Rocket Research Co., USA

SO U.S., 11 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 4274893	A	19810623	US 1979-23786	19790326

L4 ANSWER 81 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1981:156979 CAPLUS

DN 94:156979

TI Pure cyanuric acid

IN Wegleitner, Karlheinz; Krulla, Wilfried; Willim, Richard

PA Lentia G.m.b.H. Chem. und Pharm. Erzeugnisse-Industriebedarf, Fed. Rep. Ger.

SO Ger. Offen., 8 pp.

CODEN: GWXXBX

DT Patent

LA German

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FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2929211	A1	19810205	DE 1979-2929211	19790719
	AT 365180	B	19811228	AT 1979-5148	19790726
	AT 7905148	A	19810515		
	EP 23556	A1	19810211	EP 1980-103394	19800618
	EP 23556	B1	19821222		
	R: AT, BE, CH, DE, FR, GB, IT, NL				
	AT 2073	E	19830115	AT 1980-103394	19800618
	SU 931105	A3	19820523	SU 1980-2937821	19800625
	US 4278794	A	19810714	US 1980-165154	19800701
	JP 56016479	A2	19810217	JP 1980-97697	19800718
	ES 493534	A1	19810516	ES 1980-493534	19800718
PRAI	DE 1979-2929211		19790719		
	EP 1980-103394		19800618		

L4 ANSWER 82 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1978:171685 CAPLUS
DN 88:171685
TI Effect of thermal and thermochemical treatment on the properties of glass
fiber woven fabrics
AU Zyzka, Danuta
CS Text. Inst., Lodz, Pol.
SO Pr. Inst. Wlok. (1977), 27, 37-49
CODEN: PIWIAH; ISSN: 0370-016X
DT Journal
LA Polish

L4 ANSWER 83 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1977:425377 CAPLUS
DN 87:25377
TI **Cooling** of reaction waste gases from melamine synthesis
IN Hillenbrand, Engelbert; Fromm, Hermann; Widmann, Alfred
PA BASF A.-G., Ger.
SO Ger. Offen., 10 pp.
CODEN: GWXXBX
DT Patent
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2525781	A1	19761216	DE 1975-2525781	19750610
	DE 2525781	B2	19791031		
	DE 2525781	C3	19800717		
	NL 7606169	A	19761214	NL 1976-6169	19760608
	NL 184680	B	19890501		
	NL 184680	C	19891002		
	BE 842727	A1	19761209	BE 1976-167735	19760609
	FR 2314182	A1	19770107	FR 1976-17342	19760609
	FR 2314182	B1	19800725		
	ES 448687	A1	19770701	ES 1976-448687	19760609
	GB 1549212	A	19790725	GB 1976-23821	19760609
	JP 52028463	A2	19770303	JP 1976-67210	19760610
	JP 59028550	B4	19840713		
	US 4138560	A	19790206	US 1977-864323	19771227

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PRAI DE 1975-2525781 19750610
US 1976-688762 19760521

L4 ANSWER 84 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1976:498510 CAPLUS
DN 85:98510
TI Cement mixture for production of articles with high strength
IN Buerge, Theodor
PA Sika A.-G., Switz.
SO Swiss, 3 pp.
CODEN: SWXXAS
DT Patent
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	CH 574880	A	19760430	CH 1971-19001	19711227
	AT 312490	B	19740110	AT 1971-39	19710105
PRAI	AT 1971-39		19710105		

L4 ANSWER 85 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1976:464000 CAPLUS
DN 85:64000
TI Antipunking phenolic resin binder systems for mineral fiber thermal insulation
IN Higginbottom, Harold P.
PA Monsanto Co., USA
SO U.S., 8 pp.
CODEN: USXXAM
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 3956204	A	19760511	US 1975-556597	19750310
	AU 7611797	A1	19770915	AU 1976-11797	19760309
	AU 503225	B2	19790830		
	CA 1049172	A1	19790220	CA 1976-247634	19760309
PRAI	US 1975-556597		19750310		

L4 ANSWER 86 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1975:514496 CAPLUS
DN 83:114496
TI Cyanuric acid from melamine
IN Ohata, Yoichi; Ono, Takami
PA Nissan Chemical Industries, Ltd., Japan
SO Japan. Kokai, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 50032193	A2	19750328	JP 1973-84976	19730730
	JP 53043960	B4	19781124		

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L4 ANSWER 87 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1975:61354 CAPLUS
DN 82:61354
TI Polymeric phosphoryl nitride
IN Sommer, Klaus
PA Benckissr-Knapsack G.m.b.H.
SO Ger. Offen., 7 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2317282	A1	19741024	DE 1973-2317282	19730406
	DE 2317282	C3	19781214		
	NL 7404563	A	19741008	NL 1974-4563	19740403
	BE 813373	A1	19740731	BE 1974-142911	19740405
	GB 1461615	A	19770113	GB 1974-15138	19740405
	IT 1015906	A	19770520	IT 1974-50201	19740405
	FR 2224511	A1	19741031	FR 1974-12274	19740408
PRAI	DE 1973-2317282		19730406		
	DE 1973-2355575		19731107		

L4 ANSWER 88 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1974:133485 CAPLUS
DN 80:133485
TI Melem
IN Karlik, V. M.; Gal'perin, V. A.; Zagranichnyi, V. I.; Finkel'shtein, A.
I.
SO U.S.S.R.
From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1974, 51(4),
64.

CODEN: URXXAF

DT Patent
LA Russian
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	SU 413147	T	19740130	SU 1971-1681276	19710712

L4 ANSWER 89 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1974:120350 CAPLUS
DN 80:120350
TI Recovery of guanidine from aqueous solutions from melamine manufacture
IN Schmidt, Alfred; Wegleitner, Karlheinz; Hatzle, Josef H.; Sylpra, Rudolf;
Weinrotter, Ferdinand
PA Lentia G.m.b.H. Chem. u. Pharm. Erzeugnisse-Industriebedarf
SO Ger. Offen., 10 pp.
CODEN: GWXXBX

DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2234732	A1	19740131	DE 1972-2234732	19720714
	DE 2234732	C2	19830505		

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CH 581098	A	19761029	CH 1973-7721	19730529
CS 161072	P	19750504	CS 1973-3957	19730531
GB 1439808	A	19760616	GB 1973-29412	19730620
FR 2193009	A1	19740215	FR 1973-22659	19730621
IN 139553	A	19760703	IN 1973-CA1500	19730627
US 3952057	A	19760420	US 1973-376176	19730703
CA 977774	A1	19751111	CA 1973-175632	19730704
NL 7309556	A	19740116	NL 1973-9556	19730709
NL 176258	B	19841016		
NL 176258	C	19850318		
IT 991712	A	19750830	IT 1973-69062	19730710
SE 402453	C	19781012	SE 1973-9732	19730711
JP 49051225	A2	19740518	JP 1973-77964	19730712
JP 51006651	B4	19760301		
DD 107444	Z	19740812	DD 1973-172251	19730712
BE 802357	A1	19740114	BE 1973-133497	19730713
SU 468404	D	19750425	SU 1973-1949194	19730713
RO 61199	P	19761115	RO 1973-75471	19730714
PRAI DE 1972-2234732		19720714		
AT 1972-6369		19720725		

L4 ANSWER 90 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1974:37184 CAPLUS
 DN 80:37184
 TI Purification of melamine
 IN Kokubo, Ryo; Takakuwa, Yasuo; Shiroishi, Akihiro; Kaneko, Hiroshi; Sato, Katsusuke
 PA Nissan Chemical Industries, Ltd.
 SO Japan., 6 pp.
 CODEN: JAXXAD
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 48029233	B4	19730908	JP 1970-98068	19701107

L4 ANSWER 91 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1973:505205 CAPLUS
 DN 79:105205
 TI Pyrolysis of cyanuric acid under pressure of the evolved gases
 AU Gal'perin, V. A.; Karlik, V. M.; Finkel'shtein, A. I.; Zagranichnii, V. I.; Al'tschuler, L. N.
 CS USSR
 SO Tr. Nauch. Issled. Proekt. Inst. Azotn. Prom. Prod. Org. Sin. (1972), No. 16, 48-55
 From: Ref. Zh., Khim. 1973, Abstr. No. 9Zh454
 DT Journal
 LA Russian

L4 ANSWER 92 OF 109 CAPLUS COPYRIGHT 2001 ACS
 AN 1972:526694 CAPLUS
 DN 77:126694
 TI Ammonium carbamate in separation of melamine and urea from melamine synthesis effluent
 IN Hamprecht, Guenther

V. Balasubramanian

PA Badische Anilin- und Soda-Fabrik A.-G.

SO Ger. Offen., 8 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 2101560	A	19720727	DE 1971-2101560	19710114

L4 ANSWER 93 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1971:76456 CAPLUS

DN 74:76456

TI Recovering melamine after purification

IN Kokubo, Ryo; Yokomichi, Koji; Takakuwa, Yasuo; Nagakura, Mizuhiko;

Maruyama, Isao; Shiroishi, Akihiro

PA Nissan Chemical Industries, Ltd.

SO Brit., 6 pp.

CODEN: BRXXAA

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	GB 1218522		19710106	GB	19690124

L4 ANSWER 94 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1971:54416 CAPLUS

DN 74:54416

TI Melamine by urea pyrolysis

IN Vialaron, Andre

PA Uguine Kuhlmann

SO Fr., 8 pp.

CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	FR 1593874		19700710	FR	19681129

L4 ANSWER 95 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1970:488437 CAPLUS

DN 73:88437

TI Apparatus for the manufacture of melamine from gaseous cyanic acid and ammonia

IN Weinrotter, Ferdinand; Schmidt, Alfred; Boehler, Walter; Mueller, Walter

PA Lentia G.m.b.H. Chem. u. Pharm. Erzeugnisse-Industriebedarf

SO Ger., 3 pp.

CODEN: GWXXAW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 1595895	A	19700716	DE 1966-L52833	19660211

V. Balasubramanian

L4 ANSWER 96 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1970:79104 CAPLUS
DN 72:79104
TI Separation of melamine from a synthesis gas mixture
PA Stamicarbon N. V.
SO Neth. Appl., 7 pp.
CODEN: NAXXAN
DT Patent
LA Dutch
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	NL 6809253		19691231	NL	19680629

L4 ANSWER 97 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1970:28231 CAPLUS
DN 72:28231
TI Analysis of cyanamide derivatives with the separation of mixtures on ion-exchange resins
AU Boitsov, E. N.; Mushkin, Yu. I.; Karlik, V. M.
CS Gos. Nauch.-Issled. Proekt. Inst. Azotn. Prom. Prod. Org. Sin., Dzerzhinsk, USSR
SO Zavod. Lab. (1969), 35(7), 790-2
CODEN: ZVDLAU
DT Journal
LA Russian

L4 ANSWER 98 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1970:12773 CAPLUS
DN 72:12773
TI Recycling of gases from melamine synthesis to urea synthesis in a combined process for synthesis of melamine and urea
IN Kaasenbrood, Petrus J. C.; Van Nassau, Petrus J. M.
PA Stamicarbon N. V.
SO Ger., Offen., 10 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 1904912	A	19690911	DE 1969-1904912	19690131
	DE 1904912	B2	19770602		
	NL 6801577	A	19690805	NL 1968-1577	19680202
	BE 727645	A	19690730	BE 1969-727645	19690130
	AT 283379	B	19700810	AT 1969-980	19690131
	FR 2001269	A5	19690926	FR 1969-2347	19690203
	GB 1247951	A	19710929	GB 1969-1247951	19690203
	US 3682911	A	19720808	US 1969-796093	19690203
PRAI	NL 1968-1577		19680202		

L4 ANSWER 99 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1970:4846 CAPLUS
DN 72:4846

V. Balasubramanian

TI Gas generating composition containing melamine
IN Butts, Philip G.
PA Olin Mathieson Chemical Corp.
SO U.S., 2 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3473981	A	19691021	US 1966-542740	19660415

L4 ANSWER 100 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1969:449996 CAPLUS

DN 71:49996

TI Pure melamine

PA Badische Anilin- und Soda-Fabrik A.-G.

SO Fr., 2 pp.

CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1538284		19680830		
PRAI	DE		19661006		

L4 ANSWER 101 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1969:438385 CAPLUS

DN 71:38385

TI Recovery of urea in the synthesis of melamine

PA Badische Anilin- und Soda-Fabrik A.-G.

SO Fr., 3 pp.

CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1533740		19680719		
PRAI	DE		19660809		

L4 ANSWER 102 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1968:427388 CAPLUS

DN 69:27388

TI Synthesis of melamine from urea by a pressureless single-stage process

AU Hamprecht, G.; Schwarzmann, M.

CS Bad. Anilin- und Soda-Fabrik A.-G., Ludwigshafen/Rh., Ger.

SO Chem.-Ing.-Tech. (1968), 40(9-10), 462-4

CODEN: CITEAH

DT Journal

LA German

L4 ANSWER 103 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1968:114663 CAPLUS

DN 68:114663

V. Balasubramanian

TI Manufacture of melamine
 IN Weinrotter, Ferdinand; Schmidt, Alfred; Mueller, Walter; Boehler, Walter
 PA Oesterreichische Stickstoffwerke A.-G.
 SO Austrian, 3 pp.
 CODEN: AUXXAK

DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	AT 260942		19680325	AT	19660210

L4 ANSWER 104 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1968:114567 CAPLUS

DN 68:114567

TI Melamine from urea at atmospheric pressure

AU Schmidt, Alfred

CS Stickstoffwerke A.-G., Linz, Austria

SO Chem.-Ing.-Tech. (1966), 38, 1140-4

From: CZ 1967, (40), Abstr. No. 2743

CODEN: CITEAH

DT Journal

LA German

L4 ANSWER 105 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1967:516874 CAPLUS

DN 67:116874

TI Chemical research in Austrian industry. I. Technical processing problems

in the production of melamine from urea at atmospheric pressure

AU Schmidt, Alfred

CS Chem. Forschungs-lab. Oesterr. Stickstoffwerke A.-G., Linz, Austria

SO Oesterr. Chem.-Ztg. (1967), 68(6), 175-9

CODEN: OCHZA8

DT Journal

LA German

L4 ANSWER 106 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1967:115740 CAPLUS

DN 66:115740

TI Pure melamine

IN Weinrotter, Ferdinand; Mueller, Walter; Schmidt, Alfred; Boehler, Walter

PA Oesterreichische Stickstoffwerke A.-G.

SO Austrian, 3 pp.

CODEN: AUXXAK

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	AT 252927		19670310	AT	19650308

L4 ANSWER 107 OF 109 CAPLUS COPYRIGHT 2001 ACS

AN 1967:76038 CAPLUS

DN 66:76038

TI Purification of melamine

V. Balasubramanian

IN Nelson, Elmer L.; Kennedy, Thomas W.
PA Allied Chemical Corp.
SO U.S., 2 pp.
CODEN: USXXAM

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 3296266		19670103	US	19650121

L4 ANSWER 108 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1967:18700 CAPLUS
DN 66:18700
TI Preparation of melamine from urea at atmospheric pressure
AU Schmidt, Alfred
SO Chem.-Ing.-Tech. (1966), 38(11), 1140-4
CODEN: CITEAH
DT Journal
LA German

L4 ANSWER 109 OF 109 CAPLUS COPYRIGHT 2001 ACS
AN 1967:4279 CAPLUS
DN 66:4279
TI Condenser-separator
IN Sinn, Richard; Vogel, Ludwig; Hamprecht, Guenther; Schwarzmann, Matthias;
Fromm, Hermann D.
PA Badische Anilin- und Soda-Fabrik A.-G.
SO Ger., 4 pp.
CODEN: GWXXAW

DT Patent
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 1227422		19661027	DE	19640129

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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